

HANABAL KHAING (US CITIZEN CONTRACTOR C2C, 1099, REMOTE ONLY)

Thank you for considering me for your project. Please be advised that I only accept Enterprise Data Modeling roles because nothing else can be done until the data modeling is done correctly. As of 2024, only 0.8% of companies, down from 7% in 2018, have correct/non-FAKED real-time multi-dimensional data models that work with object oriented code and modern cybersecurity. According to Gartner, 80% of all IT projects fail, 19.2% are canceled.

Enterprise Data Modeler / Chief Data Officer - Summary of Qualifications

- REAL DATA MODELER FROM the USA, Full 60+ skill sets for data modeling, data quality and performance, unit testing, data security, data pipelines, & data lineage
- Note why I say “REAL” above: Most people claiming to be data modelers are fake and may be code developers at best, con artists at worst. Real data modelers have experience equivalent to three PhDs, and 30 to 56 times the skills and experience of a code developer.
- My data models enable proactive business & government management by making data, reports, & KPI Metrics available in real-time. The models pass security audits and performance testing.
- My data models capture “The Edge,” which is what are the business practices that make one company out perform other companies. That edge needs to be encoded into the core data structure to ensure that all employees and software conform to the business vision, direction, and rules.
- I translate business requirements into UML data structures, conceptual, logical, and physical data models, that enforce security, business logic, law, and business rules. I then generate DDL to create databases, and JUnit capable Java Interfaces for QA, business requirement checklists, & performance testing. The model automatically cleans and maintains the data. A correct data model automates data integrity, automates business rule enforcement, and prevents data quality issues, performance issues, fraud, and hacking. Java code can also be automatically generated from the data model and for additional fees, turned into turn-key applications that work immediately.
- Investing in Data Modeling & Governance is insurance for 30+ years of trustworthy data and financial loss reduction. Trustworthy data eliminates loss through inefficiencies, court fines, tax liabilities, software incompatibilities, fraud, and enables business intelligence & proactive management. The 30-year financial loss reduction for medium to large businesses averages \$291,000,000 for less than a 2.5 to 102 million dollar investment. The financial loss reduction for fortune 1000 companies averages \$9,000,000,000 over thirty years. Preventable [government fines for a single data breach](#) can be over 575 million dollars.
- Over 700 US banks have completely failed over just the last 23 years after not investing in robust data modeling with real-time atomic data, structurally encoded legal compliance for accounting, anti-fraud, 401k tracking, and investment tracking, from a real data modeler. All of them used a fake data modeler, database administrator which has 1/30th the skills of a data modeler, or a code developer to try to cut the cost of hiring a real data modeler or to embezzle the wages allocated for data modeling by upper levels of management. <https://www.fdic.gov/resources/resolutions/bank-failures/failed-bank-list/> Nearly 100% of the failed banks tried the Indian outsourcing strategy before they failed. The outsourcing either caused or escalated the failure.
- As of March 2024, the FBI and INTERPOL have recovered over 257 million dollars from fraudulent IT organizations based in India in [Operation First Light 2024](#). The outsourcing strategy has caused mass infiltration of hackers who create fake databases and software with backdoors and unencrypted passwords. Most of the hacks are initiated from inside the companies. Additionally, most companies fall for the low rate scam many hackers use to infiltrate. For example, the data modeling contractor rate from the 1990s was \$500/hour due to hardware, facilities, software, training, and other costs. Note that data modelers are always contractors because data modelers are no longer needed as soon as the model is complete. The real data models created by real data modelers usually last beyond 30 years. The Indian companies promised to do the same job for less than \$100,000, or 10% of the actual cost, which is not scientifically possible. The reason most IT projects fail is because they are not properly staffed nor funded. The first sign of failure is skipping the analysis phase of development to cut costs with a statement saying, “We don’t have time.” The second sign is not hiring the senior business analyst first to create the business requirements documents which are required to create the initial core data model BEFORE the data exists. Without documented requirements, the data models will always be fake and insecure. The third sign is no data modeler.

Professional Experience

IJTIO LLC, ARTIBIS, Sanofi Pharmaceutical Data, ATOS, MetLife, Third Party Clients C2C San Francisco, CA 06/2013 – Present

Sr. Enterprise Data Modeler

- BI Data Modeling, ER/Studio, CA Erwin, Kimball, Inmon, Codd, ACORD, Conceptual, Physical & Logical Data Models
- IBM Cognos BI, Dashboards, Object Oriented Design, data lineage & pipeline, Java, Hive, Spark, Netezza, Redshift
- IBM Infosphere, IGC, Data Governance, business glossary, DG policy management, Data Stage ETL, Metadata DB
- ERP, FHIR EHR, Supply Chain, HR, Payroll, Metadata, Business Glossary, Claims, EMR, MDM data warehouse, cloud
- Oracle, PostgreSQL, SQL, Solaris Unix, Linux, Multi-dimensional database, Java Code Generation CRUD, ETL, JUnit test
- Automated change data capture & metadata, automated database triggers & constraints, automated data replication
- Pharmaceutical batch and ingredient tracking database, **fatal mix auto alert database** integration into FHIR R4
- SDLC, Agile, Scrum, DevOps, AWS, Azure Cloud, release system with version control for production auto deployments
- Data integration, EAI, SOA, EDI, Data Virtualization, source to target mapping, iPaaS, BaaS, Amazon / AWS Payments
- Kafka real-time data streams and message queue, real-time change data capture audit, Kafka cluster, confluent cloud
- Kafka data encryption, Kafka encrypted XML, Kafka connect, xml message import to Oracle
- Big Data, Data Archive

TE Connectivity, Tyco Electronics Corp.

Harrisburg, PA 08/2007 – 04/2013

Enterprise Data Modeler, IT Analyst

- Data Modeling, Kimball, Inmon, Codd, ACORD data strategies, MDM, 3NF, 2NF, Star Schema, Data Vault 2.0, OLTP
- ER/Studio, CA Erwin, Cognos BI Dashboards, Analytics Dashboards, Story Presentations, KPI Metrics, MDM, data mart
- Accomplished production deployment and version control release system, automated ETL, JUnit, Java, data pipeline
- Accomplished supply chain management system for manufacturing and Internet Backbone, DBMS, RDBMS, Python/R
- Oracle ERP, SAP ERP Manufacturing, PostgreSQL, Solaris UNIX, HP PPM, IBM Cognos, Dashboards, OOD
- Automated change data capture & metadata, automated database triggers & constraints Oracle & PostgreSQL, SQL
- SDLC, Agile, Scrum, DevOps, AWS, Azure Cloud & version control, data warehouse management, automated QA test
- Data integration, EAI, SOA, EDI, Data Virtualization, source to target mapping, iPaaS, BaaS BofA Payments
- Kafka message queue for database triggered data/topics to mobile apps, SAP ERP message queue to Kafka to Oracle
- Kafka data encryption, Kafka encrypted XML, Kafka connect XML converter, xml message from SAP import to Oracle

PA PENNDOT, Deloitte

Harrisburg, PA 02/2007 – 05/2007

Sr. Enterprise Data Modeler

- Data Modeling, Data Architecture, Data Governance, ER/Studio, CA Erwin, Kimball, Inmon, Codd data strategies
- Accomplished MDM design for new data systems and internal data encryption, Welfare & Unemployment database
- Government Data Management, raw data analysis, government portal, DMV data model, Voter Registration via DMV
- Data best practices documentation, advanced data governance for government data, Cyber security, 2-factor Auth.
- IDEF1X, UML, 3NF 3rd normalized data to multi-dimensional design, OLTP capable data performance, RDBMS, SQL
- Oracle, PostgreSQL on Solaris UNIX, command line, shell scripts, Java, government data warehouse, auto CDC
- Data integration, EAI, SOA, EDI, Data Virtualization, ETL source to target mapping, iPaaS, BaaS BofA Payment

NC Department of Justice, Technisource government contract

Raleigh, NC 11/2006 – 02/2007

Sr. Enterprise Data Modeler, Encryption Specialist

- Data Modeling, ER/Studio, CA Erwin, Kimball, Inmon, Codd data strategies, RDBMS, Reverse engineer PostgreSQL
- Oracle, Linux, AES encryption, Java, MDM, data warehouse, IBM, IBM cloud services / remote network computing
- Accomplished Social Security number encryption database & data architecture design, Data Encryption serial key
- Automated data backup, change data capture, & metadata, automated database triggers Oracle & PostgreSQL
- Data integration, government EDI, ETL source to target mapping, BaaS, Bank of America Payments

Transoft Inc. (Acquired by NCR, Cash Management/Supply Chain & Bank Software 500 million +) Cary, NC 12/2004 - 11/2006

Sr. Enterprise Data Modeler (New supply chain development for physical cash from Federal Reserve to all banks & ATMs)

- Data Modeling, Temporal Data Modeling, Multidimensional Data Modeling, Relational Data Modeling, Data Steward
- Accomplished a redesign and port of the cash man. database to Oracle, improved data quality and performance
- Cash Management, ERP Financial System, SAS to Oracle ETL mappings, Java, auto use case testing, SAS auto ETL
- OptiCash, OptiVault, Cash Management Supply Chain Software, MDM + data mart Inmon Strategy, PostgreSQL, Oracle
- Automated near cash out alerts using automated data analysis and cash usage metrics, auto cash safety stock
- Data Governance, Data Quality, Data Performance

NC Department of Public Instruction HCL Government Contract

Raleigh, NC 01/2004 - 12/2004

Sr. Enterprise Data Modeler

- IBM Cognos BI, Framework Manager, Dashboards, Object Model, Object Oriented Design
- Accomplished creation of a new application for public school meals management & accounting auto anti-fraud system
- Development lead, deployment project plan, disaster recovery project plan, automatic data recovery
- Data Modeling Physical & Logical, ER/Studio, CA Erwin, Kimball, Inmon, Codd data strategies, MDM, RDBMS, SQL
- Oracle, Change Data Capture & Automated Replication Backup, Anti-ransomware Relational Data Defense, ISAM
- Oracle Database, Oracle on Solaris UNIX, command line, automation shell scripts, port Oracle to PostgreSQL

Perot Systems, EDS (Acquired by Dell for Digital Claims EHR software \$3.9 + billion)

Plano, TX 01/2003 - 12/2003

Enterprise Data Modeler

- Data Modeling Physical & Logical, CA Erwin, Kimball, Inmon, Codd data strategies, IDEF1X, OLTP Health Care ERP
- Data Modeling Conceptual, ER/Studio, CA Erwin, MDM, RDBMS, SQL, EDI, Canonical Data Models
- Accomplished Health Care ERP, HL7 (FHIR), HIPAA, HEDIS IBM Cognos, Dashboards, Framework Manager, Java
- Data integration, EAI, SOA, EDI, source to target mapping, BaaS, multi-bank insurance claims payment system
- Business requirement to turn-key Java CRUD application development, multi-platform, Solaris Unix, Linux, Oracle

Sony Latin America (TEKSystems Staffing Contract) (Hands-on Manager).

Miami, FL 02/2002 - 12/2002

Enterprise Data Modeler

- Relational Data Modeling - Logical & Physical, OLAP to OLTP upgrade, 2NF, 3NF, Multidimensional data modeling, SQL
- Accomplished product and customer database redesign, web-based Data Entry System ported to PostgreSQL
- Managed 14 development & Data teams over 14 countries, provide technology direction & Data Governance
- Created Data model for on-line product displays and inventory and internal data entry system, CDC, Data Vault, CVS
- Erwin, HTML & CSS Web Interfaces to databases, NextStep / Apple WebObjects, EOModeler, MDM, IDEF1X, UML
- Oracle, RDBMS, DBMS, ISAM, ETL, streaming data, data replication, bulk data transfer, big data, SAP integration
- Oracle Financials OFSAA, Oracle ERP (Oracle Applications), data warehousing, MDM, supply chain data
- Sun Solaris UNIX 7 and 8, SuSe Linux, Linux Cluster High Availability & Scale-ability, OLTP eCommerce & Retail

Univision

Miami, FL 10/2001 – 01/2002

Data Modeler

- Relational Data Modeling Logical & Physical, 3NF Dimensional Modeling, Data Entry Forms & Data Model, CRM
- CA Erwin, TOAD, OLAP, OLTP, Extract Transform and Load (ETL) process design, data validation server side & client
- Data Governance, Data Warehousing, CDC, Data Vault, CVS version control, IDEF1X, UML, 3NF third normalized data
- Oracle, Oracle RMAN, Performance Tuning, SQL, PL/SQL, UNIX shell script, ported data entry system to PostgreSQL
- Accomplished new creation of a web-based OLTP data entry system, application, metrics system, and data model

Mars Music

Miami, FL 06/2001 - 09/2001

Data Modeler, UNIX Systems Administrator

- Data Modeling Conceptual, ER/Studio, CA Erwin, Kimball, Inmon, Codd data strategies, MDM, Snowflake schema
- McBlane E-Express News start-up, Music discography, music licensing & royalties many-to-many multidimensional DB
- IBM Cognos BI, Dashboards, Framework manager, port DB2 to PostgreSQL to reduce licensing costs
- Accomplished Retail ERP, data systems design, Relational Data Modeling Conceptual, Logical, & Physical
- Accomplished **advertising targeting** database by demographics, colors, location, instruments, artist, music facts, etc.
- Accomplished retail e-commerce system, data model, and application, Data entry and update forms, SCM & Inventory
- Data Modeling Physical & Logical, CA Erwin, Kimball, Inmon, Codd data strategies, IDEF1X, OLTP Health Care ERP
- Oracle Financials OFSAA, data warehousing, MDM for Supply Chain Data, automated orders & return system

Hewlett Packard (Data Force, Miami FL, 1099, other contract)

San Francisco, CA 12/1999 - 12/2000

Data Modeler

- Data Modeling, Logical & Physical, HTML & CSS Web Interfaces to databases, Java, Temporal Data Modeling, IDEF1X
- Erwin, ETL, data conversion, materialized views, 3NF Dimensional Modeling, data validation, order fulfillment data
- Accomplished creation of a new e-commerce system for (pandi), \$12 million daily sales, 10 million unique users
- Production Architecture Design & Performance Tuning (10 million Unique Users) OLAP to OLTP, Customer Data, CRM
- B2B Product development e-commerce, B2C e-commerce, E-commerce project manager UNIX, ePrise transition
- Data Architecture Design Strategy, Three and Four Tier Unix Clustered Systems Design, OLTP, automated sales metrics

Nortel Networks (Acquired by Avaya)

RTP NC 08/1999 - 12/1999

Data Modeler

- Data Modeling Physical & Logical, CA Erwin, Kimball, Inmon, Codd data strategies, IDEF1X, OLTP Health Care ERP
- Data Modeling Conceptual, ER/Studio, CA Erwin, Kimball, Inmon, Codd data strategies, MDM, Snowflake schema
- IBM Cognos BI, NeXT/Apple WebObjects, Oracle, Change Data Capture & Automated Replication
- Data Warehousing, Sales Data, Supply Chain Data for Manufacturing
- Accomplished the creation of a new metrics system, ERP Data Modeling, CRM Warehouse, MDM, Supply Chain System

Bank of America (Nations Bank Merger Project, SAI Software Staffing Contract)

Charlotte NC 01/1998 – 08/1999

Data Modeler, Web Interface Developer

- Data Modeling, physical, logical, conceptual, OLTP [Temporal Data Modeling](#), IDEF1X, UML
- Accomplished web interface design, data merge for merger of Nations Bank and Bank of America, Release System
- Accomplished a new multidimensional data model design for atomic finance data, & custom reports
- Multidimensional bank transactions table structure, Centralized contact data model
- Multi-owner to account data structure, account linkage, interface and use case by state law, 53 versions of website
- Transaction location data structure with GIS database, Cash management optimization prototype
- LiveWire, Solaris Unix, Cold Fusion, Perl, XML, Production release and version control system

How to properly employ a data modeler:

Data Modeling is accomplished through business requirements documents, not hundreds of meetings as introduced by guest workers from third world countries. Fake IT workers usually do that to make it seem like they are working when they have no idea how to do the job. The more meetings they schedule, the slower the work will progress. Interactions with a data modeler should only be done through a single point of contact who is the senior business analyst. The data modeler must have full authority within data modeling. People who are not data modelers should not be allowed to randomly change the data structure, nor attempt to alter it to suit their individual skill sets. The data models, data structure, should always match the business requirements, which include legal, performance, functional, and cybersecurity requirements, and be based upon nothing else.

Note that data modeling encompasses a minimum of 36 sets of skills and usually over 60 skill sets combined to enable one person to translate business requirements into data models which enforce the requirements, not as individual skills in other roles due to the differences in mental processes which are opposite to the processes of developers and analysts. Developers and analysts find similarities and patterns in the data, data modelers uniquely identify data and enforce legal compliance, business rule compliance and data integrity along with cyber security.

Most people think data modeling is modeling data, but it is NOT. Most IT professionals don't really understand it nor know what it is. Additionally most IT teams have no idea how to use developers and data modelers. For example, they will schedule 30% to 125% of an 8 hour day for meetings. Meetings should be schedule with business analysts who create business requirement documents which are then delivered to data modelers and developers so they can work uninterrupted. One interruption can take 2 to 4 hours of recovery time due to the changes in mental processes required.

If 30% of time is schedule for meetings 60% to 100% of the data modeling time will be wasted finding locations in complex models, trains of thought, etc., leaving 10% to 0% to actually do the job. Non-data modelers and non-business analysts should have zero or near zero contact with a data modeler. The only contact should be at major milestones in the project for unit testing.

Be advised that there was no foreign access to classified American data technology before the 1993 release of publicly available data standards, which are required to be able to make valid data systems and secure applications. Most of the information for data modeling training is still unpublished and only seen by military or civilian intelligence personnel trained inside the United States. There is no wonder that every major bank and corporation is having billion dollar cyber security issues, collectively in the trillions, just to try to save 40 billion in labor industry wide by hiring foreign labor in IT.

It would be wise to get your core data systems done correctly, then freeze all changes to the data model before proceeding with anything else because data modeling is the prerequisite for literally everything; BI, analytics, data science, etc. Again, data models lasts for 30+ years and only need changes/maintenance when the fundamental way a business works changes. That usually does not happen for hundreds of years. Therefore, if a new developer requests changes to a data model while nothing in the way the business works has changed, likely that person is trying to fake a project, match a database table to a web page instead of business requirements, legal standards, and cyber security standards, get paid fast, leave the system insecure with backdoors, hack the data, sell the data, then disappear before anyone realizes what was done.

Education

NCSU

1993-1996

- Mechanical Engineering

Government Certifications & Military Baccalaureate Degrees (US Army, National Guard)

1991-1996

- Military Law Enforcement 95B, cross trained CID 31D & civilian law enforcement (anti-terror database prototyping)
- Military Information Technology, Encrypted Telecommunications, [Communications Specialist 31U](#)
- Military PLDC (Management & Leadership Development, Anti-Sexual Harassment & Inclusion Training)

Alliance Française - Paris France (Multi-lingual Database Character Set Project)

2013

- French levels 1, 2, & 3 immersion course, computer vocabulary study, French to English Database

On The Job Technical Training Courses (Government & Corporate, 10- year Data Modeling Master Path)

1991-2000

- Data Modeling, Cryptography (1991 – 1996 **5-year training** for 30+ skill sets of a data modeler)
- Java, Solaris UNIX, Oracle, Automated Java Code Generation, C++, C, 5+ year work experience
- NeXT / Apple WebObjects (Xcode & Objective C), Enterprise Object Modeler (EO Modeler – data modeler)

Languages

- English Language (Native, American English)
- French (Intermediate)
- Spanish (Beginner)
- Japanese (Beginner)

Links

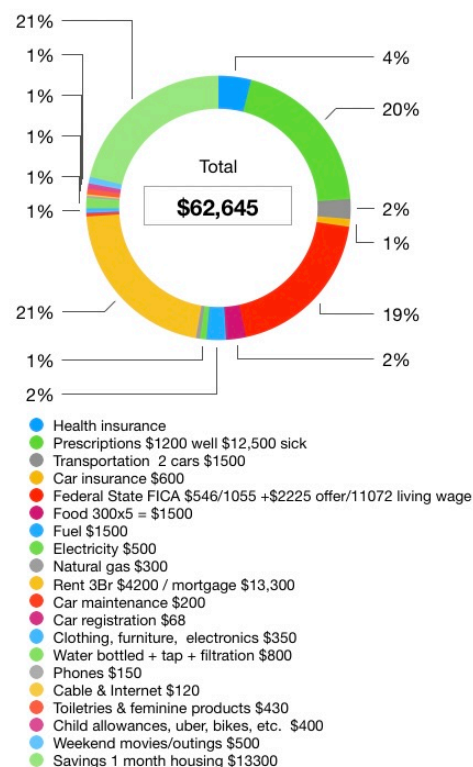
- LinkedIn: <https://www.linkedin.com/in/hanabal/>
- Personal Web Page: <https://www.hanabalkhaing.com>
- hanabalusa@yahoo.com
- C2C Contractor: [\\$385 to \\$15000+/hr ERP, MEDICAL, FINANCIAL data systems](https://www.ijtio.com)
- [1-828-393-5666 Google Voice](tel:1-828-393-5666)
- LinkedIn Articles <https://www.linkedin.com/in/hanabal/recent-activity/articles/> (32+ articles)
 - How to Spot a Fake Data Model
 - <https://www.linkedin.com/pulse/how-spot-fake-data-model-hanabal-thalen-khaing-p1mac/>
 - The 30+ Skill Sets of a Real Data Modeler
 - <https://www.linkedin.com/pulse/30-plus-skillsets-data-modeler-hanabal-thalen-khaing>
 - How Business Requirements Become Data Models
 - <https://www.linkedin.com/pulse/how-business-requirements-become-data-models-hanabal-thalen-khaing>
 - SAP HANA ERP
 - <https://www.linkedin.com/pulse/understanding-sap-hana-hanabal-thalen-khaing>
 - Data Governance, BIM, MDM
 - <https://www.linkedin.com/pulse/data-governance-bim-mdm-hanabal-thalen-khaing/>
 - Temporal Data Modeling for Real-Time Data
 - <https://www.linkedin.com/pulse/advanced-temporal-data-modeling-high-speed-currency-financial-khaing>
 - How the Lack of Data Modeling by a Professional Data Modeler Costs Companies 3 TRILLION Dollars Per Year.
 - <https://www.linkedin.com/pulse/how-lack-data-modeling-costs-america-over-3-trillion-thalen-khaing>
(also covers nearly a trillion in waste in the health care industry due to poor data systems)
- Huge fines, \$110,000,000 to BILLIONS, for having bad data, poor accounting, and other data issues related to the lack of data modeling, wage theft and embezzlement of IT budgets, etc.
 - <https://www.sec.gov/news/press-release/2023-149>
 - <https://www.sec.gov/news/press-release/2023-212>
 - <https://www.sec.gov/news/press-release/2022-206>

Living Wage Budget - San Francisco Bay Area - My work produces data models and products worth an average of 3 BILLION dollars at costs between \$2,500,000 and \$102,000,000 + 400% standard corporate markup. At cost deposits required.

Budget - Monthly living wage

Money In		Annual average pay
Paycheck	\$63,000	
Additional income	\$0	
Total income	\$63,000	\$756,000

Money Out		Mortgage	Rent
Health insurance	\$2,500		
Prescriptions \$1200 well \$12,500 sick	\$12,500		Air pollution sickness
Transportation 2 cars \$1500	\$1,500		
Car insurance \$600	\$600		
Federal State FICA \$546/1055 +\$2225 offer/11072 living wage	\$12,127	\$12,127	\$2,771
Food 300x5 = \$1500	\$1,500		
Fuel \$1500	\$1,500		
Electricity \$500	\$500		
Natural gas \$300	\$300		
Rent 3Br \$4200 / mortgage \$13,300	\$13,300	\$13,300	\$4,200
Car maintenance \$200	\$200		
Car registration \$68	\$68		
Clothing, furniture, electronics \$350	\$350		
Water bottled + tap + filtration \$800	\$800		
Phones \$150	\$150		
Cable & Internet \$120	\$120		
Toiletries & feminine products \$430	\$430		
Child allowances, uber, bikes, etc. \$400	\$400		
Weekend movies/outings \$500	\$500		
Savings 1 month housing \$13300	\$13,300		
		Hourly Rate Contractor 3 to 36 month job	\$1,252
		Hourly Rate W2 15-year job	\$376
		Contractor rate	\$2,503,294
		Savings Annual W2	Annual gross W2
Total expenses	\$62,645	\$159,600	\$751,740



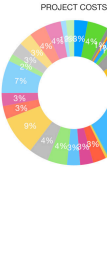
Money Left Over	
Income minus expenses	\$355
Annual shortfall or profit	\$4,260
Total annual profit w2	\$163,860
Profit percentage	21.80%
Retirement funding estimate	\$1,966,320
30-year living cost estimate 3% annual inflation	\$54,576,324

Single Resource W2/C2C Rate Calculation \$376 - \$15,000/hour varying by project type, duration,

DATA MODELING PROJECT - BI, BANK, ERP, OR EHR, Budget - 36 MONTHS

Category	Amount
CONTRACT DEPOSIT	\$56,832,700
CONTRACT PAYMENTS	\$442,416,400
Total Income	\$499,249,100

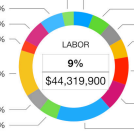
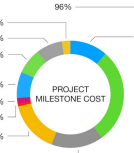
Category	Amount	STAFF COUNT
Data Modeling Facilities LAND	\$2,500,000	
DATA MODELING FACILITIES METAL SOLID WALL ANTI-FUNGAL ANTI-SBSS BUILDING (CA LABOR LAWS, COOLING, AIR BURN AND FILTER CLEAN AIR SYSTEM, DATA MODELING WALL AREA THREE 280' ALR SCREENS	\$3,700,000	
JVC PROJECTOR BK 3K (CUT COSTS BY 4 MILLION FROM SHARP 120" DISPLAYS X12) risk: projectors last 1 year versus 3	\$300,000	
PROJECTOR SCREENS ALR 3X 280" EACH	\$109,700	
DATA MODELING LUMI, SOFTWARE	\$36,000	
3-TIER ARCHITECTURE LINUX SYSTEM QA TEST PERFORMANCE TEST/UAT	\$1,000,000	
3-TIER ARCHITECTURE LINUX SYSTEM DEV	\$1,000,000	
DATABASE LICENSES IBM, ORACLE, POSTGRESOL - SCALE TO 25M+ USERS PERFORMANCE TEST	\$3,000,000	
PAYROLL TAX, PROPERTY TAX, SALES TAX, OTHER TAX, LICENSES, PERMITS	\$2,496,000	
TELECOMMUNICATIONS	\$36,000	
TRANSPORTATION, SERVER TRANSPORT, EQUIPMENT TRANSPORT, HEAVY HAULING	\$300,000	
SOLAR (REDUCES UTILITIES FROM 120K)	\$75,000	
CLEAN WATER SYSTEM (CA LABOR)	\$180,000	
90-day HEDGE bonds, project overrun protection, PROJECT CANCELLATION INSURANCE	\$15,000,000	
LABOR DATA MODELING 1	\$4,800,000	1
LABOR SYSTEM ADMIN 2	\$2,400,000	2
LABOR DATABASE ADMIN 2	\$2,400,000	2
LABOR SECURITY 24/7 6	\$2,400,000	6
LABOR SUPPORT STAFF 10, SUPPORT OPERATIONS AND TRAINING	\$3,600,000	10
LABOR LEGAL - accounting system cert. (Which this cost could expose to 20 million - need legal cost overrun clause - client pay)	\$3,600,000	2
LABOR INDUSTRY AND BUSINESS ANALYTICS 5	\$7,200,000	5
LABOR ETL 2	\$2,400,000	2
LABOR DATA ANALYSTS 2	\$2,400,000	2
LABOR QUALITY ASSURANCE, PERFORMANCE TESTING, UNIT TESTING, USER ACCEPTANCE TESTING, SIGN-OFF 10	\$6,000,000	10
LABOR PROJECT MANAGEMENT 2	\$1,350,000	2
Labor Code Developers & App Developers 2	\$2,400,000	2
Labor Code Developers 2	\$2,400,000	2
LABOR Training Leads & Staff 2	\$900,000	2
LICENSE BI TOOLS COGNOS, ETC.	\$3,000,000	
LICENSE APPLICATION SERVERS, IBM, ORACLE, WILDFLY	\$3,000,000	
License HP load runner performance test for 25 million users/day, 3.7 million concurrent	\$1,500,000	2
Misc, supply, fuel, etc.	\$150,000	
Licenses Multimedia software	\$15,000	
Licenses AES Encryption	\$2,400,000	
Licenses ETL Informatica	\$1,350,000	
Business Insurance	\$15,000	
Data Loss Insurance	\$15,000	
Insurance Equipment	\$37,500	
Property Insurance	\$24,000	
General Office Managers & HR	\$640,000	2
PROFIT	\$412,009,000	
Total expenses	\$499,249,100	92



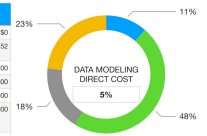
- Data Modeling Facilities LAND
- DATA MODELING FACILITIES METAL SOLID WALL ANTI-FUNGAL ANTI-SBSS BUILDING (CA LABOR LAWS), COOLING, AIR BURN AND FILTER CLEAN AIR SYSTEM, DATA MODELING WALL AREA THREE 280' ALR SCREENS
- DATA MODELING CPU DELL T720 1.5TB RAM, 30 W/20x 90 GPU
- JVC PROJECTOR BK 3K (CUT COSTS BY 4 MILLION FROM SHARP 120" DISPLAYS X12) risk: projectors last 1 year versus 3
- PROJECTOR SCREENS ALR 3X 280" EACH
- DATA MODELING LUMI, SOFTWARE
- 3-TIER ARCHITECTURE LINUX SYSTEM QA TEST PERFORMANCE TEST/UAT
- 3-TIER ARCHITECTURE LINUX SYSTEM DEV
- DATABASE LICENSES IBM, ORACLE, POSTGRESOL - SCALE TO 25M+ USERS PERFORMANCE TEST
- PAYROLL TAX, PROPERTY TAX, SALES TAX, OTHER TAX, LICENSES, PERMITS
- TELECOMMUNICATIONS
- LABOR DATA MODELING 1
- 90-day HEDGE bonds, project overrun protection, PROJECT CANCELLATION INSURANCE
- CLEAN WATER SYSTEM (CA LABOR)
- SOLAR (REDUCES UTILITIES FROM 120K)
- TRANSPORTATION, SERVER TRANSPORT, EQUIPMENT TRANSPORT, HEAVY HAULING
- LABOR SYSTEM ADMIN 2
- LABOR DATABASE ADMIN 2
- LABOR SECURITY 24/7 6
- LABOR SUPPORT STAFF 10, SUPPORT OPERATIONS AND TRAINING
- LABOR LEGAL - accounting system cert. (Which this cost could expose to 20 million - need legal cost overrun clause - client pay)
- LABOR INDUSTRY AND BUSINESS ANALYTICS 5
- LABOR ETL 2
- LABOR DATA ANALYSTS 2
- LABOR QUALITY ASSURANCE, PERFORMANCE TESTING, UNIT TESTING, USER ACCEPTANCE TESTING, SIGN-OFF 10
- LABOR PROJECT MANAGEMENT 2
- Labor Web Developers & App Developers 2
- Labor Code Developers 2
- LICENSE BI TOOLS COGNOS, ETC.
- LICENSE APPLICATION SERVERS, IBM, ORACLE, WILDFLY
- LABOR Training Leads & Staff 2
- LICENSE HP load runner performance test for 25 million users/day, 3.7 million concurrent



Milestones	ETA ASSUME 50% + 100% OVERTIME in calendar month	SDLC PHASE	Purpose	Payment Amount
Phase 1 Deposit & JTT Startup, Data Modeling	2	Analysis	PROJECT SCOPE DEFINITION, Workplace safety, CA labor compliance, project insurance, data modeling facility for screen space for data modeling speed, three screens 280" each, Project bonds, 250k/quarter \$3,000,000 over 36 months, post project recurring costs - property tax, etc.	\$56,832,700
Data Modeling Phase 2 Business Analysts & BRD, conceptual data modeling	11	Analysis	VERIFY PROJECT SCOPE - Create or clarify business requirements, data governance rules, capture business logic, document logic and conceptual data modeling	\$143,134,717,64706
Phase 2 - Data Modeler working with Business Analysts Clarify Functional Documentation for Coding phase	6	Design	Documentation of logical data model. This is required to create a physical data model.	\$78,073,482,352041
Data Modeler Physical Data Model / Business Analysts Clarify Functional Documentation for Coding phase	6	Design	Physical data model will hold actual data, encryption, and is responsible for performance and implementation of business logic and cybersecurity rules	\$78,073,482,352041
Base Code Generation, POC with 90%+ code	0.25	Design	This generates 90% of the application code directly from the data model, leaving the business rules intact and enclosed along with cybersecurity rules, POC generation	\$3,253,061,7647068
QA Performance Testing & Rework, UAT sign-off one technical manager - okay to start coding	0.75	Design	Quality Assurance - POC Proof of Concept application and database. This is how the business users view the functionality of data models. UAT when they verify that the business requirements are met by at least 80%. The remaining 10% usually comes from functional requirement documentation and the final coding in the next phase.	\$9,759,185,2941176
Phase 3 - Code development & refinement	3	Implementation	Functional documentation implementation. Writing final 10% of the code	\$39,036,741,176470
GUI refinement, Web Development, app development	3	Implementation	Graphical user interface branding, logos, look and feel, mobile app development	\$39,036,741,176470
ETL, QA Unit testing, and UAT testing, Re-run performance testing, training	3	Implementation	Quality assurance, Training, Data Security, final checks before go live, ETL, unit data, data encryption	\$39,036,741,176470
Deployment to production, final UAT, sign-off	1	Implementation	Go Live, additional QA testing and performance testing, final sign-off	\$13,012,247,658823
Total Months	36	Monthly Payment	\$13072247.06	\$442,416,400



Category	Amount
Income minus expenses	\$0
DATA MODELING SUPPORT LABOR COUNT MINIMUM	52
DATA MODELING HARDWARE	\$3,099,700
DATA MODELING DATABASE SOFTWARE	\$12,936,000
DATA MODELING LABOR + OVERTIME	\$4,800,000
DATA MODELING FACILITIES & SCREEN SPACE 280"x3 (SCREEN SPACE REQUIRED FOR SPEED & SHORT TIME FRAME)	\$6,375,000
DATA MODELING TOTAL	\$27,210,700
OPTIONAL CLIENT 90-DAY HEDGE BONDS	\$62,081,833



- DATA MODELING HARDWARE
- DATA MODELING & DATABASE SOFTWARE
- DATA MODELING LABOR + OVERTIME
- DATA MODELING FACILITIES & SCREEN SPACE 280"x3 (SCREEN SPACE REQUIRED FOR SPEED & SHORT TIME FRAME)

ENTERPRISE DATA MODELING & SOFTWARE DEVELOPMENT - ERP, GRP, BANK, EHR FHIR