

# HANABAL KHAING

**US CITIZEN, MINIMUM RATE \$240/HOUR C2C, 1-828-393-5666**

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## Summary of Qualifications

- Over 25 years of Information Technology experience in Data Architecture, Data Modeling, UNIX
- Intellectual Property: ERP, BIS, CRM, EMR, PPM, LMS, Legal, Bank, and DMV Data Models
- **DO NOT CONTACT NOTICE: Minimum \$240 / hour DO NOT CONTACT WITH OFFERS BELOW THIS RATE!!! CTO, CIO, DATA MODELER, DATA ARCHITECT TITLES ONLY**
- Work Sample: <http://www.hanabalkhaing.com/demo.zip> , <http://www.hanabalkhaing.com>

I have primarily worked in the banking, health care, and manufacturing industries. I have created data models in the insurance, retail sales, government service, and data collection industries. Most of the data collection designs are for research and development, surveys, and the transformation of unstructured data into structured data for BI analysis. My primary responsibility is to integrate **enterprise data modeling** into the SDLC or similar methodology using conceptual, logical, and physical data modeling in the analysis, design, and implementation phases respectively. I work directly with business analysts to collect and validate the business requirements, then I transform the requirements into data models and multi-database designs. Once the data model is finalized and tested, I generate the base code required for interfaces, inserting data, reading data, disabling archiving or deleting data, and updating data. The base code is then delivered to application developers who encode application logic for the interfaces. My secondary responsibility is usually to use the same business requirements to design the **data architecture** and data **governance policies**. Thirdly, I also redesign and **repair IT systems** with performance, data integrity, and security issues.

## **Experience includes:**

- Complete ERP, BIS, CRM, PPM Data Model Created from UML to DDL and deployment
- Data Modeling
- Dimensional modeling
- Star Schema
- Snowflake Schema
- Relational Data Modeling
- Logical Data Modeling
- Physical Data Modeling
- Relational Data ETL multi-source to master target mapping, Informatica MDM 10, Informatica ETL, DataStage ETL
- Shell scripting and transformation scripts
- Erwin
- ERStudio
- EOModeler
- Star Schema, Extended Star Schema, Snowflake Schema, Multi-Dimensional Data Models, Normalized Data Models
- Data Warehouse, MDM
- Data Dictionary, Metadata, Master Data
- Business Requirements gathering and logical modeling
- SQL query & performance tuning
- Teradata
- Oracle 7, 8i, 9i, 10g, 11g, 12c, PL/SQL
- MS SQL Server SSIS
- IBM DB2, UDB
- Informatica 9.0 - 9.6
- Hadoop & NoSQL
- Data Security & Encryption
- Hadoop Encryption DEK, EDEK, KMS
- IT Management and Architecture Design
- Enterprise Architecture Design
- Enterprise Cloud Architecture Design
- Project Management & written reporting
- Financial Data
- Accounting Data
- Health care HEDIS and HIPAA development
- Data Governance
- Data Management
- UNIX & Linux
- HTML & CSS Web Interfaces to databases
- Java EE 6,7,8,9
- Rapid Application Development and Database Consolidation
- OLAP
- SAP Business Objects
- Cognos BI Dashboard
- DataStage, Informatica, Oracle ODI ETL tools
- Cognos 8,10,11
- Cloud, AWS, Oracle, Azure, RedShift
- Automated Java Code & Interface Generation
- CCAR & Bank Stress Testing Data Model
- Team Management

## **Professional Experience**

**ARTIBIS Staffing (IT People, TeraNova, LifeScale, CCNC, Metlife, Ascensus)**  
**CA, NY, NC, DC, Philadelphia PA** **06/2013 - Present**  
***Sr. Enterprise Data Modeler, Data Architect, Director of Data Governance & Software Design, CTO***

- Coordination with CIO & Business Unit Project Managers for Technology Direction
- Data Modeling, Star Schema, Extended Star Schema, Snowflake Schema, Multi-Dimensional Data Modeling, row-level security, centralized contact data model, data encryption, row-level security, centralized contact data model, data encryption, Kimble Data Strategy Models
- Software object code generation, data profiling, data strategy
- EMR System & Data Model Created, Data Modeling and Architecture Design Review
- SaaS software design for Medicare/Medicaid, AWS Redshift, PostgreSQL
- HEDIS Data Model Development, Security data model development
- Data Governance, Policies, and Review, HR, Data Grievance, case management
- Customer Administration Automation Project Design Review, Customer Data Encryption
- Logical & Physical Data Modeling, Big Data Export scripts, Hadoop Encryption DEK EDEK KMS
- Data Definition Language Generation (Rapid Updates), data export scripts, Hive
- Change Control & Coordination, Subversion, CVS, Git, Git Hub, Mercurial
- Identity Management, MDM Master Data Management, William Inmon Strategy
- MS SQL Server SSIS SSRS, Oracle, OLAP, OLTP, IBM UDB, RedShift, PostgreSQL, Informatica
- Database Reverse Engineering, ETL, Data Model Repair, Master Data Management MDM
- CA Erwin, MS Excel, MS Word, Collaboration Tools, MS Windows Server, Linux
- Bank CCAR Data Preparation, Universal Transaction Management System Database Design
- Software load testing, Version Control Systems, CDC Change Data Capture
- Capital Markets Data Models, Transaction tracking, Accounting, Asset Tracking
- Cognos 11 Business Intelligence, Framework Manager, Java Object Modeling, Dashboards & Reports, Dimensional Mapping, Measures, Formulas, ERP, CRM, BI, Data Modular, Automation

**TE Connectivity / Tyco Electronics Corp. Harrisburg, PA** **08/2007 - 04/2013**  
***IT Analyst (Data Modeler, Enterprise Systems Architect, Data Governance Analyst)***

- Coordination with CIO & Business Unit Project Managers for Technology Direction
- Relational Database Design for on-line parts and engineering system
- Logical and Physical data modeling, DDL, DML, UML, Informatica ETL, Inmon Strategy
- Database reverse engineering, Normalization strategy, OLTP, OLAP SAP BO
- CA Erwin, 3NF Dimensional Data Modeling, Apple WebObjects EOModeler, Eclipse
- Enterprise Architecture Review and Design, Cloud Architecture Design
- Hardware Architecture Design and Integration, Data Warehousing & Project Management
- Production Support Response and Repair, CDC Change Data Capture
- Internet Backbone Cabling Optimization Database Design
- Internet Backbone Cable Ship Route Optimization Database
- Training Program Design (Complete Analyst Training Target)
- Production Support, Production Performance Tuning, legacy file system DB to Hadoop
- SaaS, PaaS, IaaS (AWS Cloud, Cloud Servers)
- Database Auditing, System Auditing, Production Deployment Plan Auditing, Metrics
- Oracle 9i, 10g, 11g SQL query analysis with explain plan and other tools
- MS SQL Server, SSIS, SSRS, Analysis Services, Power BI, IBM Cognos BI
- SDLC, 6 Sigma, Production support - Data migration, installation strategy
- Unix, Linux, Microsoft Windows, Web Interfaces to databases, Java EE 7
- Big Data, Hadoop & NoSQL DEK EDEK KMS, Company Image Unstructured Data Collection
- MS Excel, MS Word, Excel, Collaboration Tools, HP PPM & Documentum Document Management System, Document to database conversion, Documentum file copy to Hadoop
- KPI Metrics, IBM Cognos 8, Reports, Dashboards, Framework Manager

**PA PENNDOT / InfoTech Consulting / Deloitte, Harrisburg, PA**

**02/2007 - 05/2007**

***Sr. Enterprise Data Modeler / Enterprise Systems Architect***

- Relational Database Design, ETL, Data Warehousing
- ER/Studio, CA Erwin, Logical and Physical Data Modeling, DDL, DML, UML
- Database reverse engineering & Normalization strategy
- Oracle 10g, Data Project Management, Process Modeling Review, OLAP, OLTP
- Architecture Design, DMV Database Re-Design, Database Consolidation
- Data Governance documentation, design, review, and best practices
- Project Management, Collaboration through Business Analysts
- Joint Application Design Sessions, SDLC, Enterprise Architecture Design
- Unix, Linux, SaaS, Web Interfaces to databases, Java EE 7
- MS Excel, MS Word, Collaboration Tools

**NC Department of Justice / Technisource Inc. Staffing, Raleigh, NC** **11/2006 - 02/2007**

***Sr. Data Architect, Encryption Specialist, Enterprise Data Modeler***

- Coordination with CIO & Business Unit Project Managers for Technology Direction
- Social Security Number Encryption, Data Encryption, Custom Encryption Keys
- ER/Studio, CA Erwin, Data and ETL Project Management, 3NF Data Modeling
- Data Modeling, DDL, DML, UML, Logical and Physical Data Modeling, OLAP, OLTP
- Security Analysis, Architecture Analysis, Requirements Gathering & SDLC
- Oracle 9i, Oracle 10g, MS SQL Server, MS Access, MS Excel (Database Consolidation)
- Data Warehousing & Social Security Key Replacement & Encryption
- Solaris Unix, Linux, HTML & CSS Web Interfaces to databases, Java EE 7

**Transoft Inc. (Acquired by NCR after Project Completion), Cary, NC** **12/2004-11/2006**

***Sr. Data Architect, Enterprise Data Modeler***

- Coordination with CIO & Business Unit Project Managers for Technology Direction
- Created System for Cash Management on Oracle with Java and new data model
- Data Modeling - Logical & Physical, Erwin
- Data and Enterprise System Architecture Design
- Data model porting to and From Informatica, Oracle, SAS, PostgreSQL, Informatica ETL
- Data Warehousing, OLAP, OLTP, MDM Master Data Management
- Software and Database Redesign & Port from SAS to Oracle, SAS to Teradata
- Extract Transform and Load from SAS databases to Oracle Relational Databases
- Oracle 8i, Oracle 9i, and Oracle 10g for Solaris, HP-UX, AIX, SuSe Linux, RedHat Linux
- Teradata, TD Views, OLAP connector
- SQL, PL/SQL, HTML & CSS Web Interfaces to databases, Java EE 7
- SuSe Linux Enterprise Server, Solaris UNIX
- Cash Management, ERP, Supply Chain, BIS
- SDLC, SaaS, IaaS, PaaS, Cloud Architecture

**NC Department of Public Instruction / HPS Staffing, Raleigh, NC** **01/2004 - 12/2004**

***Sr. Data Architect, Enterprise Data Modeler, Project Lead***

- Created Data model and application for state-wide school meals management system
- Data Modeling Erwin, OLAP, OLTP, 3NF Dimensional Modeling
- Data Auditing and Accounting System Auditing (State Wide School Meal Billing)
- ETL from spread sheets, paper files, fax documents, and MS access to Oracle
- Database Encryption & Connection Encryption, Database Consolidation
- SQL, PL/SQL, HTML & CSS Web Interfaces to databases, Java EE 7
- Data Warehousing & performance tuning, WebObjects EOModeler
- Oracle 9i Database on Solaris and Linux, SuSe Linux Enterprise Server
- SDLC, MS Excel, MS Word, Collaboration Tools

**Perot Systems (Acquired by Dell), Tampa, FL Dallas TX, Plano, TX 01/2003 - 12/2003**

**Data Architect, Enterprise Data Modeler - Healthcare / HIPAA / HEDIS**

- Created Data Model, Application, and Deployment Plan for Health-care billing and EMR
- Data Modeling - Physical & Logical, CA Erwin
- Data warehousing, ETL & Database Consolidation
- Database and Software Re-Design & Repair
- Insurance Data Project Management, Data Systems Architecture Design
- HTML & CSS Web Interfaces to databases, Java EE 7
- Data & Application Clustering configuration,
- Data Deployment Automation with UNIX shell scripts, Ant, and Java
- VITRIA, OLAP, OLTP
- Oracle, Informatica, HR Data, PeopleSoft BIS
- Clear Case Code Manager Data Consolidation
- HIPAA, HEDIS, Healthcare Data, SaaS
- SDLC, MS Excel, MS Word, Collaboration Tools
- Accounting Data Modeling, Financial & Investments Data modeling
- Insurance Accounting Data, Insurance Billing & Payment, Sr. Data Architect,

**Sony Latin America / Tek Systems, Miami, FL**

**02/2002 - 12/2002**

**Enterprise Systems Architect, Development Team Manager, Enterprise Data Modeler**

- Manage 14 development teams over 14 countries, provide technology direction
- Created Data model for on-line product displays and inventory and internal data entry system
- Development and Data Team Management
- Data Project Management (USA, Japan, Latin America) 14 teams, 86 people managed
- Relational Data Modeling - Logical & Physical, OLAP, OLTP, 3NF
- Erwin, HTML & CSS Web Interfaces to databases, Java EE 7
- Extract Transform and Load, Data Validation, Data Entry Forms
- Data Warehousing, Automated Data Growth Alerts
- Automated Data Transfer - Japan to US, US to Latin America
- SQL, PL/SQL, Oracle, DB2, JDBC Drivers/Data Source Configuration
- WebObjects EOModeler
- Sun Solaris UNIX 7 and 8, SuSe Linux
- Epiphany, SAP, and custom ERP software integration with data encryption
- Automated Java Code & Web Interface Generation

**Univision / Tek Systems, Miami, FL**

**09/2001 - 01/2002**

**Data Modeler, Data Architect, Enterprise Systems Architect, Development Team Manager**

- Created data entry system, application, and data model
- Development Team Management, Rapid Software Repair and Development
- Relational Data Modeling - Logical & Physical, 3NF Dimensional Modeling
- CA Erwin, TOAD, OLAP, OLTP
- Extract Transform and Load (ETL) process design
- Data Warehousing
- Data entry and update forms
- Oracle, Oracle RMAN, Performance Tuning, IBM DB2
- SQL, PL/SQL, Oracle, PostgreSQL
- Sun Solaris UNIX 7 and 8, SuSe Linux
- Automated Java Code & Web Interface Generation

**Mars Music****Miami, FL 06/2001 - 09/2001****Data Architect, UNIX Systems Administrator, Production Systems Architect**

- Created e-commerce system, data model, and application
- Relational Data Modeling - Logical & Physical
- Production Systems Architecture Design & Performance Tuning
- Erwin, HTML & CSS Web Interfaces to databases, Java EE 7
- Extract Transform and Load (ETL) process design
- Data Warehousing
- Data entry and update forms
- Oracle RMAN, Performance Tuning, MDM Master Data Management
- SQL, PL/SQL, OLAP, OLTP
- Sun Solaris UNIX 7 and 8, SuSe Linux, BIND DNS Database
- ATG Dynamo Database, Personalization, Java Application Administration
- Accounting Data Modeling, Financial & Investments Data modeling
- Automated Java Code & Web Interface Generation

**Hewlett Packard / Dataforce Staffing, San Francisco, Cupertino, CA 12/1999 - 12/2000****Data Architect, Data Modeler & Enterprise Systems Architect**

- Created e-commerce system printing and digital imaging products, application and data model
- Production Architecture Design & Performance Tuning (10 million Unique Users) OLAP, OLTP
- Three and Four Tier Unix Clustered Systems Design
- Data Modeling - Logical & Physical, HTML & CSS Web Interfaces to databases, Java
- Erwin, ETL, data conversion, materialized views, 3NF Dimensional Modeling
- SQL, PL/SQL, Java Stored Procedures, Oracle JDBC Drivers
- HPUX 10.20/11.0
- Written system and project reports, SaaS, eCommerce Data
- Automated Java Code & Web Interface Generation

**Bank of America / Sai Software Staffing, Charlotte NC****01/1998 - 11/1999****Data Modeler, Web Interface Developer**

- Data Modeling, physical, logical, conceptual
- Web Design, web interface to database systems
- ColdFusion, Perl
- LiveWire Server Side JavaScript, ETL
- Data merging & ETL between Nations Bank and Bank of America
- Sybase to Oracle Migration
- Erwin, ETL, data conversion, materialized views, 3NF Dimensional Modeling
- SQL, PL/SQL, Java Stored Procedures, Oracle JDBC Drivers
- Release and version control system
- Production Deployments
- Sun Solaris UNIX
- Automated Java Code & Web Interface Generation

**US & State Governments****1991-1996****Electronics & Encrypted Data Communications Specialist**

- Cryptography, Java Cryptography, Data Encryption
- Transec Encryption, Broadcast Encryption, Telecom, Radio Frequency Encryption
- Spread Spectrum hardware and software, Spread Spectrum encryption
- Crime Time-line to Database Design, Statistics and Metrics Database, Operations Data
- Leadership & People Management Training
- OTJ Logistics Training, CID Training
- OTJ Electronics Communications Training, MSE Satellite Systems
- OTJ Data Modeling, Encryption Training, Networking Training, UNIX Training

## **Education:**

### **NCSU**

**1993-1996**

- Mechanical Engineering (3.5 years)

### **Alliance Française - Paris France (Database Character Set Project)**

**2013**

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

### **Languages**

- English Language (Native)
- Japanese (Beginner)
- French (Intermediate)
- Russian (Beginner)

**Endorsements**  
**(Additional endorsements available upon request)**

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**From: MetLife Data Governance Sr. VP** O'Sick, Betsy

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To: ARTIBIS / LIFESCALE / TERRANOVA

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**Subject:** RE: Reference Check: Hanabal Khaing

Manager Name: Betsy O'Sick

Manager Title: Manager, Data & Information, SVP Data Governance

What was your work relationship with the candidate? I was his direct manager. Hanabal was brought in on a short term contract to supplement our existing team during a period of peak demand. He was with us for six months.

What were the job duties and responsibilities of the position? He was a data modeler, our modeling tool is Erwin. He back filled one of my senior employees to cover demand and fulfilled service requests as they came in. Our team receives requirements for enhancements, translates them into data model changes and generates script for implementation on various db platforms.

How would you describe his work performance? When he was assigned work suitable to his talents, produced more than expected.

How would you rate his technical skills? Hanabal demonstrated excellent command of CA Erwin modeling tool as well as being very proficient in several db platforms. His most extensive experience here was in Oracle and he demonstrated mastery for our role.

Tell me about his/her ability to get along with others. The team where he was co-located enjoyed his company. We had some difficulty in communication in the initial team assignment where there were multiple locations and several people working together on the same file. As I said previously, we were using Hanabal in a junior/support role. When I became familiar with his skill set, I realized we were under utilizing him and moved him to work where he could be more self sufficient and I was very pleased with the results. He also mentored one of my junior staff at his location with some technical issues.

What strengths does he/she have that would enable success in the position we are considering him for? Hanabal is a senior data modeler with strong technical skills who was able to jump from one db to another very well. He seemed to grasp difficult subject matter and was able to turn requirements into solid designs. He was also able to greatly increase efficiency by training team members to use features in Erwin such as gathering requirements using an Erwin formatted excel spreadsheet which can be imported and transformed into a logical data model automatically in a few seconds instead of manually doing it over a few weeks to several months.

Would you rehire him/her or work with him/her again? Yes.