

# HANABAL THALEN KHAING

## US CITIZEN

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### **Summary of Qualifications**

- Over 25 years of Information Technology experience.
- Intellectual Property: ERP, BIS, CRM, EMR, PPM, LMS, Legal, and DMV Data Models

### **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 source to target mapping
- scripting and transformation
- Erwin
- ERStudio
- EOModeler
- Star Schema, Extended Star Schema, Snowflake Schema, Multi-Dimensional Data Models, Normalized Data Models
- Data Warehouse
- Data Dictionary, Metadata
- Business Requirements gathering and logical modeling
- SQL query & performance tuning
- Teradata
- Oracle 7, 8i, 9i, 10g, 11g, 12c, PL/SQL
- MS SQL Server
- IBM DB2, UDB
- Hadoop & NoSQL
- Data Security & Encryption
- IT Management and Architecture Design
- Enterprise Architecture Design
- Enterprise Cloud Architecture Design
- Project Management & written reporting
- Financial Data
- Accounting Data
- Healthcare 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 ETL tools
- Cognos 8,10,11

## **Professional Experience**

**ARTIBIS (Sub-contracted to - TeraNova, LifeScale, CCNC, Metlife, Ascensus) Raleigh /Cary/Charlotte, NC, Philadelphia PA 06/2013 - Present**

***Sr. Data Modeler, Data Architect, Director of Software Design***

- 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
- Software code generation from data models
- EMR System & Data Model Created, Data Modeling and Architecture Design Review
- SaaS software design for Medicare/Medicaid
- HEDIS Data Model Development, Security data model development
- Data Governance Ideas, Policies, and Review
- Customer Administration Automation Project Design Review
- Logical & Physical Data Modeling
- Data Definition Language Generation (Rapid Updates)
- Change Control & Coordination (DEV, QA, Production teams)
- SVN, Identity Management
- MS SQL Server, Oracle, OLAP, OLTP, IBM UDB
- Database Reverse Engineering, ETL, Data Model Repair & Recovery
- CA Erwin, MS Excel, MS Word, Collaboration Tools
- MS Windows Server, Linux
- Software load testing
- Capital Markets Data Models, Transaction tracking, Accounting, Asset Tracking
- Cognos 11 Business Intelligence, Framework Manager, Java Object Modeling, Dashboards & Reports, Dimensional Mapping, Measures and Formulas

**TE Connectivity / Tyco Electronics Corp. Washington DC, Harrisburg, PA 08/2007 - 04/2013**

***IT Analyst (Data Modeler, Enterprise Systems Architect)***

- Relational Database Design for on-line parts and engineering system
- Logical and Physical data modeling, DDL, DML, UML,
- 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
- Production Support Response and Repair
- 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,
- SaaS, PaaS, IaaS
- Database Auditing, System Auditing, Production Deployment Plan Auditing, Metrics
- Oracle 9i, 10g, 11g SQL query analysis with explain plan and other tools
- Data Warehousing & Data Project Management
- SDLC, 6 Sigma, Production support - Data migration, installation strategy
- Unix, Linux, Microsoft Windows, Web Interfaces to databases, Java EE 7
- Big Data, Hadoop & NoSQL, Company Image Unstructured Data Collection
- MS Excel, MS Word, Excel, Collaboration Tools, HP PPM & Documentum Document Management System, Document to database conversion
- KPI Metrics (Key Performance Indicator), Comprehensive Capital Analysis & Review

- IBM Cognos 8, Reports, Dashboards, Framework Manager

**PA PENNDOT / InfoTech Consulting / Deloitte, Harrisburg, PA 02/2007 - 05/2007**  
**Sr. 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
- 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
- Oracle 10g & Data Project Management
- 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**

- 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**

- Created System for Cash Management on Oracle with Java and new data model
- Data Modeling - Logical & Physical
- Data and Enterprise System Architecture Design
- Erwin, ER/Studio
- Data Warehousing, OLAP, OLTP
- 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, 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
- Oracle 9i Database on Solaris and Linux
- SuSe Linux Enterprise Server

- WebObjects EOModeler (Enterprise Data Modeling Software)
- SDLC, MS Excel, MS Word, Collaboration Tools

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

***Data Architect - 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
- 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, CCARSr. Data Architect,

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

**02/2002 - 12/2002**

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

- 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)
- 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

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

**09/2001 - 01/2002**

***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
- Sun Solaris UNIX 7 and 8, SuSe Linux

**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
- 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, CCAR

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

**PREVIOUS EXPERIENCE AVAILABLE UPON REQUEST**

**Military Experience**

**U.S. Army / Army National Guard (Reserve Duty / Non-Veteran Status) 1991-1996**  
**Electronics & Encrypted Data Communications Specialist (31U + 95B/31D)**

**Military Certifications**

- Cryptography, Java Cryptography, Data Encryption
- Transec Encryption, Broadcast Encryption, Telecom, Radio Frequency Encryption
- Spread Spectrum hardware and software, Spread Spectrum encryption
- Crime Timeline to Database Design, Statistics and Metrics Database, Operations Data
- OCS Ft. Bragg
- PLDC - Personal Leadership Development Course
- Leadership & People Management Training
- Military Police Training, Urban Defense Training, Data Security Training
- Logistics Training
- Electronics Communications Training
- 31U (Army IT & Communications), 95B/31D (Army Military Police / CID)

**Education:**

- **NCSU 1993-1996**
  - Mechanical Engineering
- **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