

PROFESSIONAL SUMMARY:

I am an information technology architect and integrator, bringing 23 years of expertise in enterprise architectures and complex heterogeneous systems. While building data warehouses and reporting environments for telecommunications, publishing giants, and the public sector, I honed substantial experience in integrating on-premise and cloud-based data. My strong systems and network infrastructure experience enhance my data science background, lending additional strength and versatility to my capabilities in both cloud and on-premise solutions.



EXPERIENCE:

HOBSONS, INC.

Arlington, VA

DevOps Architect

07/13 – present

Designed and implemented enterprise business intelligence solutions combining data from Salesforce, Unit4 Agresso, Cvent, and various other supporting internal and external systems. Consolidated and integrated data from multiple Salesforce.com organizations to provide right-time sales analytics and revenue reporting using custom Python and SSIS integrations. Developed web integrations using REST and SOAP APIs. Participated in DevOps group maintaining Oracle, SQL Server, MySQL, Postgres, and Mongo databases hosted on-premises and at Amazon RDS and Amazon EC2. Developed and maintained administration tools and integration pipelines. Developed and maintained Jenkins pipelines supporting infrastructure as code in Hashicorp Terraform for AWS resources, including VPCs, IAM, ALBs, EC2 and EKS resources. Managed data flows in Ambari / Hive / PySpark for OLAP reporting using Apache Kylin. Deployed and managed Amazon EMR and Sagemaker environments.

PUBLIC CONSULTING GROUP

Windsor, CT

Data Warehouse Architect

06/12 – 07/13

Refactored legacy datamart structures to increase system flexibility and reduce storage and processing costs. Recovered 75% of currently allocated storage by eliminating data redundancy, and shortened data processing window from twelve hours to two hours. Deployed parallel training environment based on de-identified data from production system. Participated in P-20W SLDS design to combine K12, Higher Education and Workforce data.

ROLLING FORECAST SOLUTIONS

New York, NY

Data Warehouse Architect/Consultant

01/12 – 05/12

Authored new ETL in SQL Server Integration Services to implement incremental dimension and fact builds during forklift upgrade of source systems. Managed existing and new solutions in parallel. Updated SQL Server Analysis services cubes to reflect changes during source system replacement. Performed business analysis of existing and new source data, and checked data integrity and quality.

KFORCE / PUBLIC CONSULTING GROUP

Windsor, CT

Data Warehouse Architect/Consultant

08/11 – 01/12

Performed routine data loading procedures, maintenance, and enhancement of NJSMART educational data warehouse. Implemented fixes for data quality problems and developed refactoring plan for data flow and overall data warehouse design. Deployed and maintained Sharepoint 2010 infrastructure and reporting services.

ROLLING FORECAST SOLUTIONS

New York, NY

Data Warehouse Architect/Consultant

02/10 – 05/11

Created data warehouse solution for proprietary investment banking product with focus on scalable and accurate reporting of critical financial data from disparate sources. Created standards for data governance in data warehouse. Created data warehouse for quarterly forecasting applications necessary for corporate reporting. Created Microsoft Analysis Services cubes from diverse data sources for reporting in Sharepoint 3.0. Led onshore and offshore development efforts.

ISA CONSULTING

New York, NY

Consultant

09/05 – 02/10

Created data warehousing and business intelligence solutions using sales, marketing and financial data in a number of industries. Led teams of consultants in both DW/ETL and BI implementations. Created technical documents, trained internal and external resources, and improved processes. Managed project budgets and team staffing.

Thomson Reuters

- Developed datamarts from Cognos Planning suitable for reporting in Business Objects and Microsoft Analysis Services with KPIs and appropriate metrics to allow client to meet strategic objectives.
- Developed comprehensive datamart for long term storage of financial budgeting and planning information with auditing and granular access control.

The Stanley Works

- Evaluated business needs to develop data mapping templates used by business analysts to communicate requirements to ETL developers for both source systems and data marts.
- Created technical documentation for overall ETL system, role-based handbooks for business analysis and ETL developers, and both executive and technical references for the data warehouse models.

Louis Vuitton North America

- Analyzed requirements and designed comprehensive reporting solution for point-of-sale data for inventory control, finance, merchandising, business planning, and supply chain management in Cognos ReportNet.
- Authored enterprise design document which included row-level security, a scalable data model, and a single version of the truth across all reporting subject areas suitable for OLAP, ad-hoc querying and formatted reports.

AIG

- Audited end-to-end security for in-house marketing solution and Cognos 8 BI reporting on a SQL Server 2005 platform and authored recommendations for security implementation plan including data-at-rest and data-in-motion encryption.
- Emphasis on internal security policies and industry-wide best practice used to minimize future risk of exposure from both internal and external future audits.
- Evaluated data governance and recommended improvements to processes to enhance data integrity and regulatory compliance.
- Created summary tables in SQL Server 2005 to reduce Cognos 8 Marketing Dashboard execution time from 45+ minutes to 30 seconds.
- Created star schema based data marts to simplify Cognos 8 report development by end-users.

Boehringer-Ingelheim Pharmaceuticals, Inc.

- Created Oracle data warehouse from IMS Xponent Plantrak and internal data to Managed Markets Scorecard and Accounts Summary.
- ETL implemented in PL/SQL completes full data warehouse refresh in six minutes from partially pre-aggregated sources.

Assured Guaranty Corporation

- Created complex Cognos 8 reports using extensive JavaScript enhancements to prompt pages in order to emulate functionality in legacy client/server tool.
- Implemented Active Directory/LDAP authentication in Cognos 8 environment on mixed Windows/Linux platform.

The Thomson Corporation

- Developed database views from Cognos Enterprise Planning for generation of Cognos PowerPlay cubes and PowerPlay reports for financial reporting.
- Designed data warehouse structures, and implemented ETL in Microsoft DTS and Transact-SQL stored procedures to support PowerPlay and Cognos ReportNet reporting.
- Modeled Enterprise Planning data in Cognos ReportNet for ad-hoc and professional reporting.

E&E IT CONSULTING

Database Architect

Managed enterprise data models and data warehouse designs for government financial reporting systems. Developed scalable and dependable security, reporting, and business intelligence solutions. Acted as technical lead of data warehousing team. Implemented data warehouse designs for Java, Cognos PowerPlay, and Cognos ReportNet. Coordinated security model development implementation. Implemented smart-card authentication using PKI and SSL client authentication for Java, Oracle Application Server, and Cognos PowerPlay

New Cumberland, PA

11/04 – 08/05

DAKOTA IMAGING

BPO Systems Manager

Developed systems architecture for document processing system handling 250,000 transactions per week. Supervised contract personnel and provided technical direction to other departments. Developed capacity plans to scale system to 1 million transactions per day. Authored reports to simplify administration and save user effort. Managed requirements gathering and implementation for internal deployments

Columbia, MD

05/04 – 11/04

GENERAL DYNAMICS

Database Architect

Designed new Oracle 9.2.0.3 database architectures on HP-UX 11.11 to support developers and end users. Authored PL/SQL packages to support web-based reports. Integrated four-poorly managed databases into one unified structure to improve reliability and stability. Developed data warehouse for customer billing reporting with Cognos PowerPlay. Wrote team policy documents to implement change-control, security mandates, and DBA communication guidelines.

New Cumberland, PA

09/03 – 05/04

DAKOTA IMAGING

Systems Support Engineer

Instituted new processes and procedures for system maintenance and upgrades for IBM AIX servers and Windows 2000 workstations. Responsible for 24/7 operational management of document processing system for healthcare claims. Developed system maintenance procedure to institute change management on server configurations to improve uptime and quality assurance. Acted as primary UNIX administrator for mission critical AIX servers and DBA for Sybase databases. Developed disaster recovery and business continuity plans based on available hardware resources.

Columbia, MD

04/03 – 09/03

EDUCATION:

QUINNIPIAC UNIVERSITY SCHOOL OF LAW

Juris Doctor, Cum Laude, May 2010

Hamden, CT

THE UNIVERSITY OF PHOENIX

Bachelor of Science, Information Technology, February 2006

Phoenix, AZ

THE UNIVERSITY OF MICHIGAN

Computer Engineering Curriculum, 09/94 – 06/97

Ann Arbor, MI

PUBLICATIONS:

Note, *A Testamentary Gift of Felony: Avoiding Criminal Penalties from Estate Firearms*, 23 QUINNIPIAC PROB. L.J. 286 (2010).

Technical whitepaper, *Data Warehousing on a Shoestring Budget*, BI THIS WEEK (The Data Warehousing Institute, three part series, May 7, 2008).

Nathan G. Rawling
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TECHNICAL SKILLS

REPORTING TOOLS:

Microsoft Analysis Services, PowerBI	Cognos ReportNet, Cognos 8 BI
WebFOCUS	Cognos PowerPlay
Birst	Cognos Enerprise Planning

DATABASES:

Oracle 10g, 11g, 12c On-premise, EC2 and AWS RDS	MS SQL Server 2012, 2014, 2016, 2017 Express, Standard and Express Editions On-premise, EC2, and AWS RDS
MySQL 5.5, 5.6, 5.7 On-premise, and AWS RDS	PostgreSQL 9.6 (RDS)
Apache Hive / Kylin / Ambari	MongoDB

PROGRAMMING LANGUAGES:

R, Python, PySpark, numpy, sklearn	Salesforce APEX, SOQL
Terraform, Jenkins, Flyway	Git, Docker, Kubernetes
Pascal, C/C++, Objective-C, Java, Scala	UNIX Shell Scripting, PowerShell
Perl, Tcl/TK/Expect	PL/SQL, Transact-SQL, T-SQL
SOAP/REST/SAML	DataStage, Informatica, Oracle Warehouse Builder, Data Migrator

OPERATING SYSTEMS:

AIX 3.2.5, 5L	Centos / Redhat / Amazon Linux Debian / Ubuntu / Mint
MS Windows Server 2008, 2012, 2016 Windows Desktop 7, 10	MacOS 7, 8, 9, X
UNIX	Solaris 2.5.1, 2.6, 7,8

OTHER:

Apache HTTPD / Nginx / Tomcat Microsoft IIS	ERWin, ER/Studio, Toad Data Modeler, Visio Pro
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CERTIFICATIONS

AWS Certified Big Data Specialist, November 2019
AWS Certified Developer – Associate, June 2019
AWS Certified SysOps Administrator - Associate, May 2019
AWS Certified Solution Architect - Associate, April 2019
AWS Certified Cloud Practitioner, February 2019
Cognos 8 Metadata Modeler, December 2008
Oracle 10g Certified Database Administrator, June 2008

TRAINING

Coursera – Applied Data Science with Python Specialization, December 2017
Coursera – R Programming, January 2015
Coursera – The Data Scientist’s Toolbox, December 2014
Cognos 8 BI Report Authoring Part 1, June 2006

LANGUAGES

Spanish (some familiarity)

INTERESTS

Viola, Amateur Radio, Hiking, Medieval History, Swimming