**Delbert Aud**Solutions Architect, Data Engineer and Professional Programmer  
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Innovative IT professional with extensive experience in solution architecting, data engineering and programming.

**TECHNICAL PROFICIENCIES**

**Operating Systems:** Linux, Windows, MacOS

**Cloud:** Amazon Web Services (AWS), Google Cloud Compute, Rackspace, Digital Ocean

**Programming Languages:** Python, C, C++, Java, C#, JavaScript, SQL, Go, Visual Basic, PHP, Fortran, Swift, Rust, COBOL, R, Classic Visual Basic, FoxPro, Dart, D, Objective-C, Transact-SQL, VBScript, PL/SQL, PowerShell

**Databases:** Relational, NoSQL, Graph, Oracle, MySQL, Microsoft SQL Server, PostgreSQL, MongoDB, Redis, Elasticsearch, Microsoft Access, SQLite, Snowflake, MariaDB, Amazon DynamoDB, Microsoft Azure SQL Database, Hive, Google BigQuery, Neo4j,   
HBase, Couchbase, Memcached, Amazon Redshift, dBase, CouchDB

**Virtualization:** VMWare ESXi, Microsoft Hypervisor, Oracle VirtualBox, Docker, Kubernetes

**Automation Pipelines:** NodeRed, Apache NiFi

**Automation Tools:** Vagrant, Ansible, Robotic Process Automation, Automation Anywhere, Google DialogFlow, Selenium

**AI/ML:** ChatGPT, Ollama, LangChain

**PM Methodologies:** Waterfall, Scrum, Agile, Kanban

**Accreditation Processes:** DITSCAP, DODAF, DIACAP

**Certification:** CISSP - Certified Information Systems Security Professional  
Since 03/10/2014 (479580)

**Education:** College of Southern Nevada, AAS, CIT-Software Programming

**US Right to Work:** United States Citizen

**PROFESSIONAL EXPERIENCE**

**ConvergeOne, Programmer – Data Engineer – Remote - June 2016 to Present**

**Software Solution Engineering:**

• Developed a Java-based solution, leveraging the Avaya DMCC library, to exercise Avaya Telephone Systems and ensure new installations work as expected.  
• Utilized classic ASP, Python and Elasticsearch libraries to create multiple systems for targeted data retrieval from SQL Server databases and loading into Elasticsearch databases. One of these was a dashboard system to provide enhanced views on important help desk tickets.  
• Architected a system to collect data from a range of Avaya tools and upload it to a SQL Server database running on CentOS via a web REST interface. This solution utilized the Go language and Microsoft SQL Server.

**Data Science and Management:**

• Combined enterprise alarms with asset data to determine the noisiest equipment, using Elasticsearch and Enterprise SQL Server environment for data harvesting, Python for data cleansing and analysis, and ChartJS and Excel for chart rendering. Applied Neo4j and NetworkX for graphing analysis.  
• Created a wrapper for the Sophos Antivirus data collection tool to facilitate long-term data retention in Elasticsearch to support of audit requirements.

**Automation and Process Engineering:**

• Advised on business opportunities that would benefit from Robotic Process Automation (RPA). Applied tools including Automation Anywhere, Apache Nifi, NodeRed, Python and Golang to reengineer business processes for cost and time savings.  
• Automated the Ivanti ticket assignment process using Python, relying on various REST endpoints and database connections to ensure proper assignment based on skill and availability.

**Hewlett-Packard/EDS - Enterprise Senior Consultant – Remote - September 1995 to June 2016**

**Technical Team Manager, Bank of America Account**

• Managed an 18-member development team on 30 projects. Conducted staff performance reviews, mentoring, and presentations on team capabilities to peers and management.  
• Advised on advanced development techniques, application security technologies, network automation, disaster recovery, source code repositories, and virtual server utilization.

**Technical Team Lead, Solution Architect; NMCI Account**

• Managed and mentored development staff in creating complex solutions for the Navy Marine Corp Intranet, overseeing projects from inception through delivery and certification.  
• Supported and consulted on the IBM Rational Suite, enhancing its utilization and effectiveness for collaboration lifecycle management.  
• Standardized data formatting with custom Visual Basic scripts for Excel spreadsheets; created PowerShell remoting scripts for user-balancing data collection across large-scale Exchange server networks, leveraging asynchronous and remote execution capabilities.  
• Remediated issues with the Deployable Seat Application related to Microsoft Exchange Server upgrade, incorporating atomic unit tests and refactoring for Rhinio Mocks testing solution.  
• Engineered solutions in accordance with DISA STIGS and government security posture. Collaborated with SMEs for level-of-effort details and prepared presentation packages for requestors.

**Senior Consultant & Senior Information Specialist, various accounts,**

**Scripting & Automation:**

• Consulted on task automation using AutoSys, RoboFTP, Windows batch files, and Windows Scripting Host. Optimized OBIEE-generated Excel files, improving file access times and reducing storage requirements by 75% on Butterfield Bank Auxiliary Projects Account  
• Developed automated scripts and websites to support the Quantum desktop rollout for American Airlines Account.  
• Managed repackaging of products for automated installation at Rolls-Royce Account.  
• Installed an Oracle 8.0 database and provided code samples to utilize Cold Fusion and ASP to provide automated processes and reporting for the LA County Department of Health Services' epidemiology division.  
• Developed a system to process orders from Discovery Toys Web Site into their AS/400 order taking system.  
• Developed a program to create a proprietary directory structure from a Microsoft Excel file at Southland Corporation, controlling the distribution of software updates to all US 7-Eleven stores.  
• Developed a series of automated Excel VBA programs to produce over 250 reports from Help Desk Remedy data at Hughes Aircraft.

**Server Installation and Configuration:**

• Installed and configured a server to track software licenses via the IBM LUM product line for Northrop Grumman.  
• Built Oracle Database servers and mail servers for various clients, including SBC and KMN.  
• Developed and maintained Unigraphics’s IMAN PC product, which involved communication with a UNIX server via remote procedure calls.

**Database Management and Programming:**

• Developed SQL Server stored procedures for Microsoft's complaint tracking dashboard.  
• Conducted SQL programming and provided after-hours support for batch operations at Johnson & Johnson.  
• Developed a solution to transfer classified ads from Oracle-based ad software to an external web product at the Orange County Register.  
• Provided consulting and development services on a 3-tier telephone call accounting system at OAN, assisting in SQL, DCOM, and XML. Developed and tested an Oracle 8.0 database replication system.  
• Developed procedures to migrate data from a FoxPro database application into the EDS REMMS system at Hughes Aircraft.  
• Project-managed a data warehouse and website using Oracle RDBMS 7.2 for EDS and Xerox.

**Web Development:**

• Expanded a web-based application for tracking safety surveys and reporting at US Borax.  
• Helped develop the California Healthy Families website on ASP, VBScript, XML, and SQL Server.  
• Consulted on web servers, database operations, and development technologies for accounts including the LA County DHS, EPOCH, hGlobe and Orange County Register.  
• Created approximately 200 automated reports on Active Reports at Kellwood.  
• Optimized a Windows NT web server for the U.S. Army at KMN.

**General Consulting:**

• Consulted on due diligence and staff replacement at MMC Technologies and Fujitsu.  
• Provided Y2K consulting services at NASD and Associated Bank. Was dispatched to eTrade to review a customer complaint.  
• Evaluated and tuned a Microsoft NT platform including hardware, network, operating system, and Oracle 7.4.2.2 database at Del Monte Foods.  
• Provided RAD consulting with management at Informix.  
• Served as a security audit consultant for an undisclosed account that had suffered a data breach.  
• Conducted due diligence on the FARES proposal, which dealt with the management of large-scale real estate data on a Unix-based system.

**American Honda – Programmer – Torrance, California – October 1993 – July 1994**

**UX Consulting and Programming:**

• Provided programming and consulting services on the Dealership Communications System (DCS). This consisted of a very large transactional system that enabled the dealerships to communicate dealership, corporate and parts ordering information systems between American Honda and the dealerships.