**Delbert Aud**

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**PROFESSIONAL SUMMARY**

Highly accomplished IT professional with over four decades of experience in solution architecture, data science, process engineering, information security, cloud computing, data engineering, RPA, and AI/ML. As a Certified Information Systems Security Professional (CISSP) and MCSE-certified expert, Delbert has excelled in leveraging technical excellence to drive business success across various industries. Proficient in multiple programming languages, database systems, and cloud infrastructure including AWS and Google Cloud, he is adept at leading teams, architecting complex systems, and implementing automation to enhance efficiency and achieve organizational objectives.

**CERTIFICATIONS**

* Certified Information Systems Professional (CISSP)
* Microsoft Certified System Engineer (MCSE)

**TECHNICAL PROFICIENCIES**

* Operating Systems: Linux, Windows, MacOS
* **Cloud Computing:** Amazon Web Services (AWS), Google Cloud Compute (GCP), DigitalOcean
* **Programming Languages:** Python, C++, C, Java, C#, JavaScript, Go, Visual Basic, SQL, R, PHP
* **Databases:** Oracle, MySQL, SQL Server, PostgreSQL, MongoDB, Redis, Elasticsearch, SQLite
* **Virtualization & Containerization:** VMWare ESXi, Microsoft Hyper-V, Docker, Proxmox, VirtualBox
* **Automation:** Robotic Process Automation (RPA), Selenium, Node-RED, Apache NiFi
* **AI/ML & Data Science:** ChatGPT, Ollama, n8n, LangChain, CrewAI
* **Project Management:** Agile, Scrum, Kanban
* **Security & Compliance:** DITSCAP, DODAF, DIACAP

**WORK EXPERIENCE**

**Bath Bomb Xpress
IoT Architect**
May 2024 – June 2024

Innovative Solution Development: Harmonizing Intelligence, Sensing, and Pumping.

As a seasoned engineer and developer, I designed and developed an advanced liquid filling solution that seamlessly integrated electronic intelligence (Arduino's C programming language), mechanical sensing capabilities, and pumping technology to achieve optimal real-time performance and reliability within a manufacturing setting.

Key Features:

* Electronic Intelligence: Utilized Arduino's C programming language to create intelligent control systems that monitored and regulated the liquid filling process in real-time.
* Mechanical Sensing Capabilities: Incorporated mechanical sensors to detect changes in pressure, temperature, and flow rate, ensuring accurate monitoring of the filling process.
* Pumping Technology: Optimized pumping technology for efficient liquid transfer, minimizing waste and maximizing production efficiency.

Benefits:

* Real-Time Performance: Achieved precise control over the filling process, allowing for swift adjustments to optimize performance in real-time.
* Reliability: Ensured consistent and reliable operation through intelligent monitoring and control of various parameters.
* Manufacturing Efficiency: Streamlined the manufacturing process by minimizing waste and maximizing production efficiency.

Impact:

* Improved Product Quality: Enhanced product quality through precise filling and controlled liquid transfer, reducing defects and improving overall customer satisfaction.
* Increased Production Capacity: Boosted manufacturing capacity by optimizing pumping technology for efficient liquid transfer, allowing for increased output while maintaining high-quality standards.
* Cost Savings: Reduced waste and minimized energy consumption through optimized pumping technology, resulting in significant cost savings.

Conclusion:

This innovative solution harmoniously merged electronic intelligence, mechanical sensing capabilities, and pumping technology to deliver an advanced liquid filling solution that excelled in real-time performance and reliability within a manufacturing setting. By optimizing the filling process, I enabled manufacturers to produce high-quality products efficiently while minimizing waste and energy consumption.

**ConvergeOne**Data Engineer
June 2016 – May 2024

Technical Expertise: Delivering Innovative Solutions.

As a seasoned technical expert, I designed and developed multiple solutions that showcased my versatility and expertise.

Solutions Developed:

* Avaya Telephone System Testing Solution (Java): Created a Java-based solution using the Avaya DMCC library to exercise new installation work and ensure changes do not affect basic functions.
* Help Desk Ticket Dashboard (Classic ASP, SQL Server reporting database): Designed and developed a dashboard system for enhanced views on important help desk tickets in classic ASP, retrieving data from a SQL Server reporting database.
* Elasticsearch Solution: Implemented Elasticsearch to store data and report on help desk tickets.
* SQL Server to Elasticsearch Data Loader (Classic ASP, Python, Elasticsearch libraries): Developed a solution that extracts new and updated data from a SQL Server and loads it into an Elasticsearch database using classic ASP, Python, and Elasticsearch libraries.
* Sophos Antivirus Wrapper: Wrote a wrapper around the Sophos Antivirus data collection tool to support long-term data retention, meeting audit requirements.
* Avaya IXM Software Installation Automation (JitBit Macro Recorder, PowerShell): Utilized JitBit Macro Recorder to build a Robotic Process Automation solution for automated installation of Avaya IXM software and added PowerShell scripts to support server build.
* Robotic Process Automation Consulting: Offered consulting services on RPA to identify business opportunities for automation, leveraging tools like Automation Anywhere, Apache NiFi, Python, Golang, JitBit Macro Recorder, and PowerShell.

Data Science Projects:

* Noisy Equipment Identification: Analyzed enterprise alarms with asset data using Python to determine the noisiest equipment.
* Sumreyes Project (REST endpoints, Microsoft SQL Server database): Designed and developed a project that collects vital information from Avaya phone system components across multiple environments, transmitting gathered data through REST endpoints to a publicly accessible Microsoft SQL Server database on CentOS.
* Ivanti Ticket Automation Solution (Python): Developed an Ivanti ticket automation solution using Python to analyze and assign tickets to the proper resource based on skill and availability.
* RPA Team Contributions (Python, Excel VBA development expertise): Contributed innovative coding techniques and best practices to optimize automation solution performance by as much as 500%, resulting in significantly improved process efficiency.

Conclusion:

As a technical expert with diverse skills, I successfully designed, developed, and implemented multiple solutions across various domains that brought value in lowering operational costs and efficiencies.

**Hewlett-Packard Enterprise Services**Senior Consultant
September 1995 – June 2016

Technical Team Lead & Complex Project Manager: Driving Innovation and Success.

As a seasoned leader, I successfully managed the development of numerous complex solutions for various accounts.

Key Responsibilities:

* Project Management: Oversaw projects from concept to delivery, ensuring timely and successful completion.
* Requirements Analysis: Analyzed project requirements, developed strategies, and mentored development staff to ensure project success.
* Post-Development Support: Supported solutions post-development as they transitioned into production.

Innovative Solutions:

* Classroom Project: Collaborated with the NMCI team to develop a comprehensive solution for student account registration and automation using C# programming language and integrating with Microsoft SQL Server database, supporting the Department of Navy's training program.
* Data Manipulation & Reporting: Developed Visual Basic Scripts to automate data manipulation in large Excel Spreadsheets, ensuring consistent formatting and generation of project reporting for senior management.
* Exchange Server User Balancing: Created PowerShell remote scripts to collect user balancing data across the enterprise, utilizing asynchronous and remote execution to meet data collection timeframes.
* HP Fortify on Demand Solution: Implemented HP Fortify on Demand in a lab environment, documenting pain points and issues in the Navy network while adhering to Navy standards.

Solution Remediation:

* Deployable Seat Application (DSA): Investigated and remediated issues with DSA solution were upgrading Microsoft Exchange Server from version 2003 to 2010 would break forwarding of messages for service members out on deployment.
* Atomic Unit Tests & Rhinio Mocks: Added atomic unit tests to the solution, along with refactoring to support Rhinio Mocks testing solution.

Through my technical expertise and leadership skills, I:

* Streamlined Complex Projects: Managed multiple projects simultaneously, ensuring successful delivery and minimizing project risks.
* Enabled Collaboration & Efficiency: Implemented innovative solutions that facilitated effective collaboration and streamlined development processes for accounts and customers.
* Supported Business Growth: Provided consulting on next moves with solutions to further their mission and utilization.

Conclusion:

By leveraging my expertise in complex project management, technical analysis, and solution implementation, I enabled the accounts and customer to achieve significant improvements in project efficiency, security, and overall success.

**American Honda**Developer
October 1993 – July 1994

Delivered Expertise in Developing Large-Scale Systems.
As part of my professional experience, I had the opportunity to develop the Dealership Communication System (DCS), a comprehensive transactional system that revolutionized communication between dealerships, corporate offices, and parts ordering systems.

Key Features:

* Real-Time Data Sharing: Enabled seamless information exchange via modem communications to American Honda's AS/400 mainframe.
* Robust Platform: Designed and implemented a scalable system using Visual Basic programming language and the Jet Data Storage Engine.
* Efficient Processing: Facilitated real-time processing and analysis, enhancing overall business operations at both dealership and corporate levels.

Conclusion:

As the developer of DCS, I showcased my expertise in designing and implementing large-scale systems using cutting-edge technologies like Visual Basic and Jet Data Storage Engine. This project demonstrated my ability to create complex systems that drive business value by streamlining processes and improving communication across organizations.

**Cornelia Connelly Private School**Computer Science Teacher
Sept 1992 - May 1993

As an educator with a passion for empowering the next generation of tech leaders, I had the privilege of teaching an engaging Computer Science class to 9th grade girls at Cornelia Connelly Private School.

Teaching Responsibilities:

* Lesson Plan Development: Created comprehensive lesson plans tailored to the unique needs and interests of female students.
* Classroom Instruction: Taught classes utilizing Apple IIe computers and the AppleWorks program as primary learning tools.
* Student Progress Monitoring: Interacted with facility administrators, parents, and students to monitor student progress, address concerns, and celebrate achievements.

Hands-On Learning Experiences:

* My focus was on hands-on learning experiences that centered around the computer itself. I designed lessons that explored:
* Word Processing Skills: Utilizing AppleWorks for typing and editing.
* Spreadsheet Management Techniques: Teaching students how to manage data using spreadsheets.
* Database Development Principles: Introducing database concepts and design principles.

Conclusion:

Through this experience, I honed my teaching skills while fostering a love for Computer Science in young women. By providing an engaging learning environment, I inspired future female tech leaders and contributed to bridging the gender gap in STEM fields.