**TJ DEMAY**

**Summary:**  
With over 30 years of experience as a Software Engineer, I bring a deep understanding of the entire software lifecycle, from concept development to delivery and user acceptance. I excel in fast-paced environments, offering expertise in creating innovative solutions, resolving customer issues, and mentoring teams. I am committed to advancing company and customer missions through continuous learning and technical leadership.

**Professional Experience:**

**Altamira Technologies Corporation, McLean, VA — SWE IV - Manager, Principal Software Engineer Lead**  
*October 2023 - Present*

* Led the development of applications and services supporting the Department of Defense (DoD) and Intelligence Community (IC).
* Established testing, building, staging, and orchestration infrastructure for a containerized Rust service using Docker, enhancing national security threat identification capabilities.
* Mentored junior developers in refactoring efforts to improve performance of a Vue.js and Typescript full-stack application with Java Spring Boot microservices, optimizing PostgreSQL queries, tuning databases, and backend interactions.
* Introduced Development Containers with Docker and VSCode to streamline team efficiency and onboarding processes.
* Managed relationships with Defense Contractor engineering teams on Next-Gen Spacecraft projects, utilizing PlantUML for architecture and sequence diagrams.
* Collaborated on cloud-based solutions (AWS), integrating React, GoLang, and serverless architectures.

**Amazon AWS/EC2, Herndon, VA — Senior Software Engineer (SDE II)**  
*January 2020 - September 2023*

* Senior engineer on the EC2 Zonal Interface Management (ZIM) team, managing EC2 networking across AWS regions.
* Implemented code refactoring initiatives in Java, Ruby, and Scala, enhancing service modularity and maintainability.
* Optimized service scalability and performance across multiple EC2 regions, reducing round trips and enhancing service host efficiency.
* Collaborated on enabling user tagging of EC2 resources, developing test plans and ensuring secure execution within AWS environments.
* Implemented idempotent support in existing public APIs, coordinating with cross-functional teams for seamless feature releases.
* Contributed to On-Call rotation, ensuring uninterrupted service availability and resolving critical incidents promptly.

**GigaTrust, Herndon, VA — Software Development Manager I, Principal Software Engineer**  
*March 2009 - November 2019*

* Managed team developing desktop client applications in C++, VB6, and C#, transforming monolithic applications into reusable APIs and services.
* Implemented Agile/Scrum methodologies for Digital Rights Management (DRM), enhancing product security and customer satisfaction.
* Led migration of version control systems to Jira and Git, improving code management and team collaboration.
* DevOps architecture and implementation of continuous integration (CI/CD) pipelines with CruiseControl.NET and Jenkins, enhancing development lifecycle efficiencies.
* Developed Windows device drivers and integrated DRM solutions into Adobe Reader and Office applications using VSTO.

**Additional Experience:**

**DeMay Enterprises, LLC, Ashburn, VA — Owner**  
*March 2003 - March 2011*

* Founded and managed Discount Casino Gear, a successful online retail venture utilizing ASP.NET, SQL Server, and automated pricing strategies.
* Achieved significant revenue growth and market leadership through strategic planning and continuous product innovation.
* Successfully transitioned and sold the business on the Volusion platform, realizing profitable returns.

**EMC (now Dell), Alexandria, VA — Principal Software Engineer**  
*February 1997 - March 2009*

* Developed internal applications using Visual FoxPro for Sales Automation.
* Led teams in developing enterprise storage solutions in C/C++ and Java on a variety of Windows and UNIX platforms, optimizing storage management, collecting metrics and proactive alerting.
* Recognized with EMC's Most Valuable Player award for contributions to Java-based integration projects and client application frameworks.

**Education:**

* **Strayer University**  
  Bachelor's in Computer Science  
  March 1998 - March 1999  
  Summa Cum Laude (4.0 GPA)
* **University of Texas at Austin**  
  Post Graduate Program in Cloud Computing  
  Completed AWS and Azure certifications  
  4.2 GPA

**Skills:**

* Programming Languages: C/C++, C# .NET, Java, Python, Rust, GoLang
* Web Technologies: HTML, CSS, JavaScript, TypeScript, Angular, React, Spring Boot, ASP.NET
* Databases: SQL (SQL Server, MySQL, PostgreSQL), NoSQL (MongoDB, DynamoDB), xBase (FoxPro)
* Cloud Platforms: AWS, Azure
* Tools & Methodologies: Agile/Scrum, Docker, Kubernetes, Git, Jenkins, Jira

**Certifications:**

* Currently pursuing AWS Certification
* C++ Associate Programmer
* Microsoft Certified Solution Developer (MCSD)
* Microsoft Certified Professional (MCP)