Raul A. Santos

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Active Security Clearance

Education

University of Arizona (B.S. Electrical and Computer Engineering) Minor: Computer Science

Experience

Software Engineer Systems Intelligence March 2025 - Current

- Implement CI/CD pipelines and Data Pipelines using GitHub Actions, Docker, and Kubernetes, supporting rapid iteration and deployment.
- Integrated feedback loops and control mechanisms via **RESTful APs** and event-driven architectures, ensuring dynamic adaptability and real-time system updates.
- Employed **pair programming** methodology with **Git** and **GitHub** for source control, continuous peer review, and collaborative problem solving to ensure code quality and knowledge sharing.
- Developed responsive, modular front-end components in **React.js** and **TypeScript**, implementing complex data visualizations and interactive dashboards for real-time US Army insights
- Collaborate closely with UX designers and system analysts to translate complex army requirements into intuitive, user-friendly web applications
- Collaborate in pair programming sessions to design and refactor critical UI and back-end services, applying **clean code principles** and best practices for maintainability
- Act as a technical liaison with project managers to clarify requirements, provide progress updates, and ensure alignment of deliverables with business goals

EW Software Engineer III/SW Configuration Manager CymSTAR LLC April 2023 - March 2025

- Develop and maintain real-time simulation code and user interface modules in C++ within Linux and RTOS environments, ensuring high-performance and scalability.
- Integration and testing, ensuring robust hardware/software interaction and validation. Manage DevSecOps delivery pipelines and software development principles.
- Software programming in C, FORTRAN, C#, Python, ADA.
- Utilize Windows, Linux and VxWorks Operating Systems.
- Apply Linux system administration skills for effective server management and software troubleshooting. Collaborate across multidisciplinary teams to execute full software lifecycle development.
- Enhance cybersecurity implementing Security+ compliant practices in code development and deployment.
- Implement microservices architecture and manage CI/CD pipelines for DevSecOps.
- Supported DoD Clients in Software/Electrical/Computer Engineering MBSE

Technical Skills/Non-Technical Skills

- ➔ SQL Database, Grafana Object-Oriented Programming (OOP) C, C++,HTML/CSS/Javascript/Typescript/JAVA
- ➔ Python,Kotlin, Linux, ADA Linux (Ubuntu), VxWorks, RTOS, Windows UI/UX Application and Design Input
- ➔ Validation/Error and Exception Handling Git Configuration Management Digital Signal Processing DOD
- ➔ Palantir, Data Pipelines, Dashboards Continuous Integration/Continuous Deployment(CI/CD) Web
- ➔ Development Frameworks RESTful API's Microservices Architecture Gitlab, Docker, Kubernetes, CI/CD
- ➔ DevOps Practices Documentation and Technical Writing and Troubleshooting Git/Version Control SVD/SDD Creation

Website Portfolio: https://aluxian2130.github.io/alejandro_portfolio/