

# Raul A Santos

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Active Security Clearance

## Technical Skills/Non-Technical Skills

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

## 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 APIs** 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 measures by implementing **Security+** compliant practices in code development and deployment.
- Implement **microservices architecture** and manage CI/CD pipelines for **DevSecOps** and continuous delivery.

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## Project/Research

- **CSC337 Web Development May 2021-August 2021**

Developed a dynamic **full-stack website** using **PHP, MySQL, JavaScript, AJAX**, and **HTML/CSS** for front-end and server-side integration. Implemented server-side scripting with **PHP** and database interactions with **MySQL** for dynamic content delivery. Integrated **AJAX** for asynchronous data loading and optimized user interactions with a focus on **UI/UX** best practices.

- **SIE454 Systems Engineering Process Jan 2022-May 2022**

Applied **model-based systems engineering** methodologies for large complex system analysis, leveraging principles from economics, probability, and cognitive science. Presented detailed system concept and operational documentation, providing insight into risk analysis and system design.

- **ECE372A Microprocessor Concepts/Implementation Jan 2023-May 2023**

Created a automated cooling system using embedded systems, utilizing SFR Macros, I2C interface with MPU6050 accelerometer, SPI interface with LED matrix array.

## Education

University of Arizona 2021-2024 (B.S. Electrical and Computer Engineering) Minor: Computer Science