Estefania Sanchez

S O F T W A R E   E N G I N E E R

Sarasota, FL | github.com/estefysc | linkedin.com/in/estefania-sanchez

Work Experience

New College of Florida | Programmer Analyst   06/2023 - Present

- Developed and upgraded web-based applications, including the Student Evaluation System and Faculty Annual Activity Report, enhancing user functionality.
- Worked on front-end and back-end tasks using PHP, Javascript, PL/SQL, Python, HTML, CSS.
- Participated in the support, testing, and training related to the student information system and other related technologies.
- Consulted with users to gather requirements, prototype solutions, and conduct tests to ensure applications met their needs.
- Created and maintained test data and scripts to identify and resolve issues, ensuring software met specifications.
- Automated recurring activities using PLSQL and Applications Manager (UC4), streamlining departmental processes.
- Participated in database design and adhered to industry best practices for system standards and documentation.
- Wrote and maintained technical documentation, system diagrams, and procedural guides for both developers and users.

FUNducation | FTC Robotics Programming Mentor | Volunteer   09/2024 - 02/2025

- Led the software development team across all stages of the development lifecycle, including coding, testing, and implementation.
- Participated in code reviews and quality assurance processes to ensure adherence to coding standards.
- Mentored and guided a robotics team in programming and technical problem-solving for competitions, focusing on the development of control systems and autonomous routines.
- Led the team in writing and debugging Java code using the FTC SDK to control the robot's motors, sensors, and actuators in both tele-operated and autonomous modes.
- Provided hands-on instruction in coding practices, logic implementation, and robot design, ensuring alignment with competition rules and best practices.
- Assisted students in troubleshooting and improving their code to optimize robot performance, including the integration of the Control Hub and Expansion Hub.
- Participated in strategic planning sessions with the team to analyze competition challenges and develop effective autonomous programs.
- Encouraged collaborative problem-solving, fostering an environment where students could apply critical reasoning.
- Reviewed code to ensure accuracy and efficiency, providing feedback and guidance to students throughout the development process.

AtLarge | Junior Software Developer   11/2022 - 06/2023

- Supported the software development team across all stages of the development lifecycle, including coding, testing, and implementation of new products.
- Worked on front-end and back-end tasks using Python, Typescript, Javascript, HTML, CSS, React, PHP.
- Collaborated with senior engineers in identifying solutions, debugging code, and attending developer meetings to discuss project progress and estimate development timelines.
- Participated in code reviews and quality assurance processes to ensure adherence to coding standards.
- Documented project progress and enhanced coding skills through continuous learning and collaboration.

Open-Source Contributions

Ladybird Browser Project   10/2025 - Present

- Contributing to Ladybird, an open-source web browser project building a modern browser engine from scratch.
- Implemented multiple web API features including Badging API, Clear-Site-Data HTTP header, and Battery Status API, with one feature successfully merged to production.
- Fixed compatibility issues that caused websites to malfunction, improving the browser's ability to run modern web applications correctly and making Web Platform Tests pass.
- Fixed browser engine bug affecting Content Security Policy compliance by analyzing cross-browser behavior, implementing C++ fix, and contributing specification improvement to WHATWG standards body.
- Collaborated with an international team of maintainers through code review, incorporating feedback and adhering to project standards.
- Navigated complex codebase with 100,000+ lines of code, successfully integrating features across multiple components.

- C++ programming in a large-scale, production codebase.
- Reading and implementing technical specifications from web standards organizations.
- Debugging and problem-solving in multi-component software systems.
- Version control with Git, including conflict resolution and branch management.
- Automated testing and continuous integration workflows.

AvoRed Rust Headless CMS   10/2025
- Implemented full-stack locale settings feature for open-source AvoRed Rust CMS project.
- Developed backend APIs using Rust, Tonic gRPC framework, and SurrealDB.
- Built type-safe frontend components with React, TypeScript, and Protocol Buffers.
- Designed database schema migrations and implemented validation across multiple architectural layers.
- Debugged complex cross-stack issues including gRPC code generation and browser caching.
- Followed open-source collaboration practices: issue tracking, code review, semantic commits.

Education

Valencia College, BAS Computing Technology and Software Development

Major: Software Development

Certifications

AWS Certified Machine Learning Engineer Associate

f13a9b29a62047629fc35884bf42b9b1

https://aws.amazon.com/verification

AWS Certified AI Practitioner

177e10883d114d3b96bfdfe777f06c19

https://aws.amazon.com/verification

DeepLearning.AI, Stanford University Machine Learning Specialization

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Skills

Languages:

Java, PHP, TypeScript, JavaScript, HTML, CSS, SQL, PL/SQL, Python, C++, Rust, C#

Frameworks & Tools:

React, Node.js, Flask, gRPC / Tonic, Docker, Git, Linux, CI/CD

Databases:

Oracle, PostgreSQL, SurrealDB, Vector Databases

ML & AI:

TensorFlow, PyTorch, Scikit-learn, Hugging Face, AWS Bedrock, AWS SageMaker

Agentic Coding:

Claude Code, Cursor IDE, ChatGPT, LangChain, LangGraph, RAG, MCP, Generative AI

Cloud & Infrastructure:

AWS (EC2, S3, Lambda), DevOps, Agile