

Natalie Santo

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EDUCATION

Florida State University

Expected Graduation: May 2027

Bachelor of Science in Computer Science | Minors in Criminology, Mathematics

- Courses: Data Structures & Algorithms in C++, Software Engineering, Computer Security Fundamentals, Computer Architecture, Discrete Mathematics 2, Advanced Java

EXPERIENCE

Cranium AI, Inc.

June 2025 - Present

Software Engineering Intern

- Developed and deployed a full-stack “Type” feature across C++ backend and React admin UI, enabling multi-type tenant filtering and search through a binary bitmask system, improving organizational efficiency and supporting future feature expansion.
- Updated backend endpoints and validated APIs with Postman, ensuring accurate multi-type data transfer between frontend and backend.
- Automated QA testing using Playwright MCP, mocking network calls and intercepting data to test app and admin UI, reducing release testing time and increasing reliability.

PROJECTS

SafeNote | <https://github.com/nataliersanto/safe-note>

Python | Flask | AWS | Nginx | JWT | AES-256

Secure Note Platform with Cloud Infrastructure

- Built secure REST API with AES-256 encryption, bcrypt password hashing, and JWT authentication using Python Flask and AWS DynamoDB.
- Deployed on AWS EC2 with IAM least-privilege roles, security groups, and configured SSL/TLS via Nginx reverse proxy.
- Configured Suricata IDS for threat detection and analyzed network traffic with Wireshark and Nmap to identify vulnerabilities and monitor API security.

ZoneIQ | <https://github.com/nataliersanto/zoneiq>

Next.js | Tailwind CSS | Supabase | JavaScript

Full Stack Boston Property Intelligence Platform

- Developed a full-stack web application with Supabase authentication and role-based access, supporting secure login flows for users and admins.
- Designed a responsive user interface with Next.js and Tailwind CSS, including a sidebar, forms for address submission, and a dynamic dashboard based on user role.
- Built address submission and storage system with row-level security, linking each entry to authenticated users and enabling easy retrieval of previous submissions.

TECHNICAL SKILLS

Languages: C++, Python, Java, JavaScript/TypeScript, SQL

Frontend: React, Next.js, Tailwind CSS

Backend: Flask, Supabase, REST APIs

Tools & DevOps: AWS EC2, Nginx, IAM, Git, Docker

Testing/QA: Postman, Playwright, Suricata IDS, Wireshark, Nmap

Other: AES-256 encryption, JWT, bcrypt