

NATHANAEL CASTRO

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PROFESSIONAL SUMMARY

Computer Science graduate (May 2026), Florida Atlantic University — Minor in AI & Cybersecurity. Full-stack software engineer with production experience building AI-powered applications using Python, JavaScript, Node.js, React, and OpenAI API. Skilled in end-to-end development: REST API design, database architecture, cloud monitoring (AWS), and frontend UX. Targeting software engineering and AI engineering roles.

TECHNICAL SKILLS

Languages	Python, JavaScript (ES6+), TypeScript, C++, Java, HTML5, CSS3
Frameworks	React, React Native, Node.js, Express.js, EJS
AI / ML	OpenAI API, LLM Integration, Prompt Engineering, AI Chatbot Dev, RAG, Embeddings
Databases	MongoDB, Supabase (PostgreSQL), Database Architecture, Schema Design
Cloud & Tools	AWS CloudWatch, Git, GitHub, REST APIs, CI/CD, Vercel, Axios
Practices	Agile, A/B Testing, Full-Stack Dev, Content Moderation, COPPA Compliance, API Rate Limiting

PROFESSIONAL EXPERIENCE

AI Software Engineering Intern | OneHope | Pompano Beach, FL Jun 2025 – Aug 2025

- Sole intern engineer who built and deployed an AI-powered chatbot (OpenAI API, Node.js, MongoDB), enabling employees to retrieve info, answer event questions, and auto-generate meeting summaries.
- Architected a full-stack MongoDB database redesign, improving query performance and scalability for a production system monitored via AWS CloudWatch.
- Drove feature decisions through A/B testing and focus groups (35 participants); built backend survey-driven interaction flows and shipped frontend conversation starter UI modules in JavaScript.

TECHNICAL PROJECTS

Truth Talks — AI Bible Learning App | *React Native · Node.js · Express.js · MongoDB · Supabase · OpenAI API*

- Built a cross-platform mobile app (iOS & Android) where children converse with AI-powered biblical characters in real time using the OpenAI API and React Native.
- Designed full-stack system: Node.js/Express.js REST API, MongoDB for conversation history, Supabase (PostgreSQL) for auth — with content moderation and parental controls for COPPA compliance.

NutriFit — AI Nutrition & Fitness Platform [Hackathon] | *JavaScript · Node.js · Express.js · EJS · Supabase · OpenAI API · Axios*

- Developed a full-stack web app with an AI assistant (OpenAI API) for personalized meal and workout planning, with Supabase data persistence and API rate limiting.
- Delivered a hackathon-ready platform featuring dashboards, weekly planners, and server-rendered views (Express.js + EJS) with external nutrition API integration via Axios.

EDUCATION

Florida Atlantic University — Bachelor's in Computer Science May 2026

Minor in Artificial Intelligence and Cybersecurity | Coursework: Data Structures & Algorithms, Database Systems, Software Engineering, Full-Stack Development, iOS Mobile App Dev, AI

CERTIFICATIONS

Google AI Essentials • HackerRank Python Certification (Issued 2026) • Microsoft Foundation C# Certification (In Progress)