

Dabian Garnica

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Education

Florida International University

Bachelor of Science in Computer Science; Minor in Mathematics

May 2026

GPA: 3.97

Relevant Coursework

- Data Structures
- Machine Learning
- Systems Programming
- Linear Algebra
- Software Engineering
- Database Management
- Computer Architecture
- Calculus III

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, Typescript, SQL/Postgres

Developer Tools: VS Code, , AWS, Vercel

Technologies/Frameworks: Next.js, Node, Express, React, Tailwind, Linux, GitHub

Experience

INIT FIU

December 2023 – Present

Explore Program Manager

- Spearhead the inaugural Explore program at INIT FIU, an initiative designed to introduce aspiring developers in Miami to diverse facets of software development, including game development, AI, web development, and more.
- Maintain a high standard of quality across a range of workshops by meticulously assessing the work of Explore Technical Leads, ensuring alignment with INIT's exacting criteria for workshop excellence. In past semesters, these workshops have attracted more than 500 enthusiastic students aspiring to embark on careers in the software industry.

Florida International University

August 2023 – Present

Undergraduate Teaching Assistant

- Collaborate closely with the professor and a team of teaching assistants to oversee the management and delivery of Programming 1, a foundational Java course with over 100 students per semester.
- Utilize various instructional strategies, including hands-on coding exercises, visual aids, and real-world examples, to make complex object-oriented programming concepts accessible to all students.
- Offer dedicated weekly office hours, creating a supportive environment for students to seek one-on-one assistance with programming concepts, assignments, and debugging challenges.

Miami-Dade County Public Schools

August 2023 – January 2023

Student Teaching Intern

- Design and implement a comprehensive Python curriculum for over 50 K-12 students, aligning with educational standards.
- Utilize engaging teaching strategies to break down complex programming concepts for diverse age groups.
- Provide individualized support, manage classroom dynamics, and integrate feedback to facilitate continuous improvement.

Projects

Literia | TypeScript, Next.js, React, Tailwind, OpenAI

October 2023

- Developed a web application for language learning using OpenAI API to enhance user engagement and language acquisition.
- Utilized OpenAI's text generation capabilities to generate conversational prompts for language learning, rated user responses, and provided feedback on areas for improvement (e.g., grammar, vocabulary, spelling).
- Designed a gamification system with badges and leveling to motivate users as they improve in various languages.

CardWise | TypeScript, Next.js, React, Tailwind

September 2023

- Developed an AI-powered web app for ShellHacks 2023 to match users with suitable credit cards based on credit score, student status, and preferences.
- Designed an intuitive interface for financial education and credit card information, promoting financial responsibility.
- Collaborated with three team members to rapidly develop and deploy the project in under 36 hours.

Amzn-Scrpr | JavaScript, React, Tailwind, Express, Puppeteer

July 2023

- Developed a web scraping tool using Puppeteer to extract real-time pricing and discounts from Amazon.
- Designed user-friendly interface for personalized discount information based on location and preferences, with regular updates to maintain data accuracy.