

# Isabella Correa

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## EDUCATION

### B.S. in Computer Science

May 2024 - December 2026

Florida International University (FIU) Miami, FL

GPA: 3.9 | *Dean's List: Fall 2024, Spring 2025*

**Relevant Courses:** Data Structures, Systems Programming, Software Engineering I, Computer Architecture, Net-Centric Computing

### B.A. in Psychology

August 2016 - December 2019

Florida International University (FIU) Miami, FL

GPA: 3.6 | *Dean's List: Spring 2017, Fall 2017, Spring 2018, Fall 2019*

## SKILLS

**Programming Languages:** Java, C, C++, Javascript, TypeScript, HTML, CSS, Python, Rust, Go

**Frameworks/Libraries:** React, Node.js, Express.js, JavaFX, TailwindCSS, PIL, Pandas, Numpy

**Developer Tools:** GitHub, Docker, Maven, Vite, Vue, Firebase, WebGPU

## PERSONAL PROJECTS - <https://izy138-portfolio.vercel.app/>

### Intelligent Notes | Demo: [Intelligent Notes Demo](#)

- Developed a Note taking app using Java, Maven, and JavaFX, that creates AI summaries of notes and folders.
- Includes editing and search functionalities, AI options, and note organization.

### Particle Physics Simulator | [izy138.github.io/ParticleSim](https://izy138.github.io/ParticleSim)

- Using Javascript, HTML, CSS, and WebGPU API for better performance.
- Implemented a render pipeline for the particle physics simulator.
- Using 4 matrices for strength and radius collision forces. Allows the user to change the size and number of particle types. Allows mouse interaction to attract and repel particles.

### Relational Database Engine in Golang

- Database written in Go.

### Kanban Board | [izy138-kanban.vercel.app](https://izy138-kanban.vercel.app)

- Hosted with Express using Node.js, Javascript, HTML and CSS.
- Developed to keep track of project and assignment progress. Using features for priority, deadlines, and checklists.

### Chat App

- Developed a chat app and landing page which includes firebase auth and storage. Includes a friends/ group list with different chats.
- Implemented with Node.js, TypeScript, React, Vite, TailwindCSS.

## WORK EXPERIENCE

### Front End Intern | Red Peak Corp | [red-peak.ai](https://red-peak.ai)

May 2025 - Present

- Translating Figma designs into responsive React components using TypeScript and TailwindCSS.
- Developing and refining page and loading animations, UI elements, and overall site formatting.
- Maintaining Python scripts to support AI-based content to improve book generation prompts.

### Teaching Assistant: Software Engineering I | FIU

Upcoming: Fall 2025

- Coordinating with Professor Abdul Rehman for lectures and exams.

### Teaching Assistant: Chemistry I and II | FIU

Spring / Summer 2020

- Coordinated with professor Dr. Delgado for Chemistry 1 and 2 lectures. Mentored over 300 Chemistry students across 2 semesters. Assisted the professor with lesson planning, homework planning, and helped students with in-class assignments.