

# ISABELLA CORREA

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## EDUCATION

### Bachelor of Science in Computer Science

Expected December 2026

Florida International University (FIU); Miami, FL

- GPA (CS Coursework): 3.9 | Deans List: Fall 2024, Spring 2025
- Coursework: Data Structures, Software Engineering 1, Computer Architecture, Systems Programming, Net-Centric Computing, Operating Systems, Artificial Intelligence

## SKILLS

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

*Frameworks/Libraries:* React, Node.js, Express.js, JavaFX, TailwindCSS, WebGPU, PIL, Firebase

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

## PROJECTS

### Relational Database Engine in Golang | Miami, FL

July 2025 - Present

- Designed a full relational database management system from scratch in Go
- Implemented a storage engine, a SQL query parser, and B-tree indexing
- Built core database operations (Create, Insert, Select, Update, Delete)

### Kasiopya.com | Miami, FL

July 2025 - Present

- Implemented custom features using Shopify's template language Liquid
- Created custom templates for customized popups, photo displays/carousels, and product filtering

### Particle Physics Simulator | izy138.github.io/ParticleSim

May 2025 - July 2025

- Engineered a real-time particle physics simulator in JavaScript and with HTML/CSS, leveraging WebGPU for high-performance rendering and user interaction
- Developed an optimized render and compute pipeline to simulate thousands of particles

### Intelligent Notes | FIU Software Engineering 1

January 2025 - May 2025

- Led a team of four to design the application, manage project milestones, and ensure all deadlines were met
- Developed a note taking app with search, real-time editing, and a tag-based labeling system with Java and JavaFX
- Integrated Claude API to generate summaries of notes and folders

### Kanban Board | izy138-kanban.vercel.app

November 2024 - January 2025

- Engineered a full-stack Kanban board with drag-and-drop functionality, real-time updates, and task management features, with React and Node.js

## WORK EXPERIENCE

### RedPeak - redpeak.ai | Miami, FL

May 2025 - Present

*Frontend Developer Intern*

- Collaborated with the designer to create responsive React components using TypeScript and TailwindCSS
- Engineered all page animations and responsive UI elements, improving user experience and visual appeal of the site to increase user engagement
- Optimized core Python scripts, resolving prompt-content mismatch issues and increasing the overall relevance of generated books

### Florida International University | Miami, FL

August 2025 - Present

*Teaching Assistant*

- Coordinating with Professor Abdul Rehman for Software Engineering 1, Programming 1 and 2 lectures and exams