

# Carlos E. Rodriguez

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## EDUCATION

### University of Miami

*Bachelor of Science in Computer Science*  
*Minors in Mathematics and Finance*

**Coral Gables, FL**  
*Expected May 2026*

- **GPA:** 3.78
- **Honors:** Dean's List and Provost's Honor Roll
- **Relevant Coursework:** Computer Organization and Architecture, Discrete Mathematics, System Programming, Linear Algebra, Data Structures and Algorithm Analysis, Computer Networks

## EXPERIENCE

### Teaching Assistant, Computer Programming I

*Department of Computer Science, University of Miami*

**Coral Gables, FL**  
January 2024 – May 2024

- Assisted in teaching foundational concepts of Java programming concepts, guiding students through introductory topics such as syntax, control structures, basic data types, and methods.
- Provided one-on-one guidance, helping students troubleshoot assignments and projects while building their problem-solving and debugging skills.
- Introduced core Java concepts, such as object-oriented programming, introductory data structures (arrays, lists, queues, stacks), recursion, and control flow.

### Kappa Theta Pi Professional Technology Fraternity

*Brother*

**Coral Gables, FL**  
December 2023 - Present

- Collaborated with like-minded peers on technology-focused initiatives, enhancing teamwork and problem-solving abilities in software development environments.
- Participated in technical workshops and coding challenges, expanding knowledge in areas such as web development, data science, and cybersecurity.
- Contributed to fraternity discussions on emerging technologies, staying informed on trends such as AI, blockchain, and cloud computing.

## PROJECTS

### Personal Website – carlosrod.me

January 2024

- Developed and deployed a personal website using the functionality of Jekyll and GitHub pages.
- Exhibited strong web development skills, usage of static site generators, and version control through Git.
- Displayed skills in HTML, CSS, Markdown, and the usage of an open-source tool through Jekyll.

### Search Engine – CSC220 Final Assignment

December 2023

- Built a search engine simulation, implementing a ranking algorithm with Hash Maps, Priority Queues, and the Breadth-First Search (BFS) algorithm to replicate core search engine functionality.
- Applied object-oriented programming (OOP) principles to design efficient, scalable code, incorporating sorting algorithms and iterators.
- Demonstrated problem-solving skills and a deep understanding of data structures and algorithms while building an efficient and functional search engine.

## TECHNICAL SKILLS

**Languages:** Java, Python, C

**Web Technologies:** HTML, CSS, Markdown, Git, Jekyll

**Operating Systems:** Unix

**Tools:** GitHub

## EXTRACURRICULAR ACTIVITY

### Developer Student Club

*Member*

**Coral Gables, FL**  
September 2023 - Present

- Engaged in discussions on software development topics and collaborated with peers on project analysis and development.

## ACTIVITIES & INTERESTS

**Professional:** Member of Society of Hispanic Professional Engineers

**Interests:** Software Development, Finance, AI, Fitness, Traveling, American Football, Soccer

