Ricardo Ruiz

Graduate Computer Science Student

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EXPERIENCE

Skill Court — *Software Engineer*

Summer 2021-Fall 2022

- Worked on software for hardware equipment meant for soccer training. Developed software for both mobile app usage and software running on microcontrollers.
- Worked on the backend code for the website being used. Mainly adding database functionality to accommodate changes in app software.

Florida International Univerisity— *Teacher Assistant*

Fall 2022 - Present

- Graded papers for COP 4710 a database management class that included topics such as ER diagrams, SQL, and relational algebra
- COP 4338 Systems programming class that dealt with Unix programming and the C language

EDUCATION

Florida International Univerisity — *B.S.*

Spring 2019 - May 2022

- Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Calculus III; Differential Equations; Graph Theory; Machine Learning; Statistics
- Final GPA: 3.7

Florida International University — *PhD*

FALL 2022- Present

- Graduate Coursework: Theory of computation; Computational Geomeotry; Cybersecurity; Optimization techniques; Bioinfromationcs;
- Current GPA: 4.0

Additional Experience and Awards

Google Developer Club Mentor: Helped club members in practicing technical interview questions (Leetcode) and more advanced questions (competitive programming).

Competitive Programming: Currently part of the FIU competitive programming team for the past two years.

ICPC Competition Participation- Placed 37th overall in 2019, 23rd overall in 2020, and 9th place in 2021 at Regionals

Languages and Technologies

C++; C; Java; JavaScript; Python; TypeScript
React; React-Native; mysql; docker; AWS; GCP
keras; tensorflow

Projects

Wikipedia Search: A project that turned all of Wikipedia in article links into a graph to figure out the minimum number of starting nodes needed to traverse all of Wikipedia. Over 500 million page links processed.

Competitive code: A repository of some of the hundreds of solved problems.

Leetcode Bot: A discord bot that parses messages with a certain submission format. It then uses an API to check if the code is working and stores result in a MySQL backend.