Rafael L.S Reis

Santa Cruz, CA
LinkedIn: www.linkedin.com/in/raf-reis/
Github: github.com/Sirraff

WORK EXPERIENCE AND PROJECTS

California State University - Monterey Bay | Apple Scholar   **May 2023 – Present**
Undergraduate Researcher   *Seaside, CA*

- Developing RAPL based software to measure the impact of code efficiency and energy usage.
- Conducting research on the implications of code efficiency in real-world contexts.

California State University - Monterey Bay   **Aug. 2023 – Present**
Teaching Assistant (Data Structures)   *Seaside, CA*

- Transformed grading process by implementing JUnit and Python/Bash automation tools, shifting from manual compilation and grading to instant feedback. This pivotal change reduced evaluation time for 80+ students per assignment from 8 hours down to a few seconds, significantly enhancing efficiency and accuracy.
- Instructed classes of approximately 40 students, delivering hands-on lab sessions and lectures on data structures.

Cabrillo College, Financial Aid Office & Scholarships   **Jan. 2020 – Dec. 2022**
IT Specialist   *Santa Cruz, CA*

- Developed data processing and parsing solutions, improving departmental efficiency.
- Implemented a Python-based email-to-HTML converter and a web crawler for website maintenance..

GrassRoot Information Taker - *Project | github.com/Sirraff/gritIOS*

- Developed G.R.I.T, an open-source Data Management app for Android and iOS, leveraging Firebase for seamless cross-platform functionality.
- Enhanced data processing through geotag, date subqueries, and custom user tags for precise tracking, serving a spectrum of needs. Utilized tools such as machine vision and quantized machine learning.

AWARDS

- **NASA GMiS STEM Zone Competition - 2nd Place winner scholarship**
- **Apple Scholar Grant Recipient**

EDUCATION

California State University, Monterey Bay   **Dec. 2025***(expected graduation date)*
BS Computer Science, Concentration in Data Science

SKILLS

- <u>Programming Languages</u>
  - o   Python, C++, Java, Kotlin, Swift, JavaScript, SQL, Bash
- <u>Libraries & Frameworks:</u>
  - o   TensorFlow, NumPy, Flask, Apple Core ML, Node.js, pandas, Requests, MongoDB, Firebase, RESTful