Computer Scientist \ Software Engineer

Rudy D Orahin

Portfolio - GitHub - rorahin@ucsd.edu - (619) 760-6902 - San Diego, CA

Education

University of California, San Diego | *B.S. Computer Science |* Degree Expected: Dec 2023

- 3.5 GPA - Honor Society (Phi Theta Kappa)

Core Competencies

- Java, C, C++, Python, R, HTML, CSS, JavaScript, AJAX, Android Studio, ARM assembly.
- PHP, MongoDB/MySQL, Apache, Node.js, Express, Scripting, Git, CI/CD, Testing
- Advanced Data Structures, Software Engineering (Agile), Machine Learning, AI, Security,
- Digital Systems: RTL Design, System Verilog, ModelSim, Circuit Optimization

Projects

- **Fitness App (Senior Engineer):** Led a team of 10 developers leveraging Agile methodologies UCD focused on developing a fitness app, modern CI/CD, testing, documentation, and deployment.
- **Database and Analytics:** The web server considers efficient web technology, security, performance, and analytics. (JSP, Servlet, RESTful, MySQL, JSON, Google),
- **Griffin Blockchain:** developed a comprehensive blockchain mining and simulation system, proof of work, incorporating advanced data structures, multithreading, and HTTP sockets.
- Enigma and Encryption: RTL Circuit, A Universal Decrypter crack ciphertext to plaintext
- **Traffic Light Controller**: automated traffic light controller, enforcing enhanced road safety.

Leadership

IEEE UCSD Student branch – Leader | Sep 2022 – present

- Mentored 3 teams (8-11 members each) in the design and development processes.

Work Experience

NASA – Ames Research | Engineering Student Internship | Jun 2022 – Sep 2022

- Gained hands-on experience in advanced tech fields, innovative work experience, and exploring careers.

Cuyamaca College | Mathematics Tutor | Sep 2019 – Jun 2020

- Tutored with teaching models on instructions for calculus and advanced linear algebra courses.

ELM ADHC/CBAS Center | Transportation Coordinator | Jan 2018 – Nov 2019

- Managed transportation department facilitating with health insurance agencies and 3rd part providers.
- Handled conflict resolution and customer service issues, enhancing operational efficiency.