Rudy D Orahin

Zone: El Cajon, CA, 92019   contact: rorahin@ucsd.edu - rudydinha@gmail.com - (619) 760-6902

Objective

A discipline engineering enthusiast, critical thinker, conflict resolver, energetic, diligent, and eager computer science student seeking to thrive on the opportunity & be of significant value in the design/programming world.

Education

University of California, San Diego   **Degree Expected: Dec 2023**

B.S. Computer Science

- 3.5 GPA   -   Honor Society (PTK)

Core Competencies:

- Proficient in Java, C++, Python, R, Android Studio, Kotlin, React, JavaScript, HTML, CSS, No/MySQL
- Advanced data structures, Advanced software engineering (Agile), ML/DL, AI, computer vision, cryptography, cybersecurity, Advanced GitHub workflow, CI/CD
- Algorithm design analysis, Computer System Programming, memory, and performance efficiency
- API design, Shell Scripting Bash Automation, OOP, Debug, Unit Testing, E2E Testing Deployment, Git
- RTL Digital System Design, System Verilog, ModelSim, DUT, circuit optimization architecture

Projects:

- Fitness App (Senior Engineer – supervised leader of 10 developers): modern advanced SE (agile patterns), modern CI/CD, GitHub workflow, quality-focused code development, complete software beyond code, appropriate tool use, complete documentation, testing and review, user-focused, cloud and deployment, uncertainty, and individual level challenges and group dynamics.
- ZooSeeker Android App: "Agile techniques with a team of four" when arranging a trip to the San Diego Zoo, the user is given instructions regarding the best route.
- Griffin Blockchain: complete cryptography blockchain mining and simulation, advanced data structure, Multithreading, HTTP sockets IP and clouds, Docker AWS Deployed and work proof.
- Drone Controller: drone communication simulation and data stored on the database and viewed on the portal, JSP, Servlets, User vs. Cloud, RESTful, JSON, HTML, SQLite Database

- Weather Web Service "Tomcat": provides current weather and data about requested city info. The project involves REST web services and converting Google GSON to JSON to java objects.
- Huffman Coding: encoding and decoding files used for Whole Genome Sequencing over 100 GB files completed in a few seconds without losing any information.
- Graphs API: Covid-19 tracer "transmission cluster," Shortest path "distance" dynamic programming.
- Enigma and Encryption "RTL Circuit Design": encryption via the binary equivalent of each ASCII character "Prefix" and bitwise XORing model "LFSR" against a 5-6 linear feedback shift register. "Universal Decrypter" ciphertext into plaintext
- Traffic Light Controller "RTL Circuit Design": completely automated via sensors traffic controller protected and unprotected turns and enforced traffic procedure.

Work Experience

Computer Science and Engineering Internship Student Trainee   Jun 2022 – Sep 2022

National Aeronautics and Space Administration – Ames Research Center   *Moffett Field, CA*

- NASA's IEP provided the opportunity to interact with experts in the field of technology to explore various NASA careers and gain found and innovative work experience.

Mathematics Teaching Assistant/Tutor   Sep 2019 – Jun 2020

Cuyamaca College   *El Cajon, CA*

- Tutor and assistant instructor of calculus and advanced linear algebra courses.
- Per the requirements and objectives of the students, create learning modules/plans for tutoring sessions.
- Conduct discussion sections, reviews, and tutoring sessions in-person/online to expand examples from class, providing students a chance to engage and discuss methodology.

Executive Manager Assistant and Transportation Coordinator   Jan 2018 – Nov 2019

Golden Life ADHC/CBAS and ELM ADHC/CBAS Center   *La Mesa & El Cajon, CA*

- Leader in transportation facilitates with health insurance agencies and third-party transportation services.
- Troubleshooting, conflict resolution, and facilitator providing excellent customer service.
- Bookkeeping software, ADP Payroll Sys., and invoicing and billing.

Awards & Certifications

Chess Game Championship   2008
- Honored as 1st Place Ranking in the 2008 Kurdistan Region Chess Championship