Robert Justin Lauv

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EDUCATION

University of California, Irvine / June 2024

B.S. in Computer Science
GPA: 3.895
ICS GPA: 3.924
Awards: Dean's Honor List (6 quarters), Chancellor's Excellence Scholarship (2 years)

Coursework:

- Data Structure and Algorithms, Design & Analysis of Algorithms, Principles in System Design, Computer Organization
- Database Management, Beyond SQL Management, AI, Machine Learning and Data Mining, Computer Photography and Vision
- SW Engineering, SW Test & Quality Assurance, SW Design
- Linear Algebra, Probability and Statistics, Discrete Mathematics, Boolean Logic and Discrete Structures

SKILLS

Technical Skills: Python, C++, C, Java, JavaScript, HTML, CSS, MIPS Assembly
Software/Libraries: Git, Linux, Unix, MySQL, PSQL, CQL, SparkQL, MongoDB, Neo4J, Matplotlib, NumPy, React.js, Docker

PROJECTS

Portfolio Site (WIP) / Summer 2023 - Present

GitHub: https://github.com/rlmech/personal_site
Pages: https://rlmech.github.io/personal_site/

- Personal portfolio website designed in Figma and developed using HTML, CSS, JavaScript, and the React library
- Deployed on GitHub pages, displays information about personal projects, experience, and includes contact information
- Site elements react to changes in screen dimensions to extend accessibility and usability to multiple types of devices

Mock Shell / Spring 2023

- Implemented portions of shell functionality in C capable of handling multiple processes concurrently
- Utilized forks and pipes to handle I/O redirection and facilitate communication between processes
- Installed signal handlers to manage the state of multiple running processes in a Unix environment

Location AQI Filtering Program / Fall 2021

- Retrieved and processed input from user to use in calls to retrieve data from PurpleAir and Nominatim API using Python urllib.request
- Utilized data to calculate various distances from queried location to nearest PurpleAir sensors based on longitude & latitude, allowing users to determine quality of air surrounding input location

ACTIVITIES

Learning Facilitator / Fall 2022

- Facilitated discussion during class activities involving 500 students on the topics of boolean logic, proofs, graphs, and more
- Collaborated with a team of 20 other learning facilitators/assistants and course staff to discuss students' weaknesses and discuss facilitation techniques
- Led additional remote and in-person office hours outside of class time to assist struggling students with difficult material

TCHS Interact Club / Aug 2019 - June 2021
Member

- Improved the condition of the local community through collaboration in beach and natural reserve clean-ups, distribution of books to children, and charity runs