Robert Justin Lauv

robert.lauv3@gmail.com
linkedin.com/in/robertlauv
github.com/rlmech
Irvine, CA 92617
(626) 503-5180

EDUCATION

University of California, Irvine / June 2025

B.S. in Computer Science
GPA: 3.895
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

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
- 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

***Columns* game** / Fall 2021

- Imported third-party library Pygame to display visuals and capture keyboard inputs
- Implemented *Columns* game that allowed user to control and update screen live through various keyboard input

ACTIVITIES

Learning Facilitator / Fall 2022

- Facilitated discussion during class activities involving 500 students on the topics of boolean logic, proofs, graphs, relationships, and finite state machines
- Collaborated with 20 other learning facilitators/assistants and course staff to discuss students' weaknesses and discuss facilitation techniques
- Held additional office hours outside of class 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