

# Robert Lauv

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Irvine, CA 92617

## EDUCATION

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**University of California, Irvine**

/ December 2024

B.S. in Computer Science

GPA: 3.879

Awards: Dean's Honor List (5 quarters), Chancellor's Excellence Scholarship

### 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

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**Technical Skills:** Python, C++, C, Java, JavaScript, HTML, CSS, MIPS Assembly

**Software/Libraries:** Git, Linux, Unix, MySQL, PostgreSQL, Cassandra, MongoDB, Neo4J, Matplotlib, NumPy, React.js, Docker

## PROJECTS

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**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

**Mock Shell**

/ Spring 2023

- Implemented portions of shell functionality in C capable of handling multiple concurrent processes
- 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

## ACTIVITIES

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**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