

Alex Le

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EDUCATION

UC Irvine | Irvine, California

Class of 2028

Major: Computer Science B.S.

GPA: 3.8

Relevant Coursework:

Math & Theory: Discrete Math • Boolean Logic • Linear Algebra • Probability & Statistics for CS

Programming: Intermediate Python • C++ as a Second Language

Software Development: Intro to Software Engineering

KIPP San Jose Collegiate High School | San Jose, California

Class of 2024

Unweighted GPA: 4.0

Notable AP Coursework:

AP Calculus BC (5), AP Computer Science Principles (5), AP Statistics (4), AP Chem (5), AP Spanish Language (4)

WORK EXPERIENCE

Woodbridge Mathnasium | Irvine, California

Oct 2025 - Present

Instructor

- Tutored students in grades K–12 in subjects ranging from basic arithmetic to algebra, geometry, trigonometry, and precalculus.
- Assessed student performance, identified learning gaps, and adjusted lesson plans to support student progress.
- Supported a positive and encouraging learning environment, helping students build confidence and develop strong study habits.

East Valley Family YMCA | San Jose, California

Aug 2023 - Sept 2025

Lifeguard

- Engaged with pool patrons and helped retain their retention and satisfaction
- Ensured patron safety by enforcing rules and being prepared to respond to incidents using CPR and First Aid training
- Appropriately addressed safety hazards across the facility

PROJECTS

Distributed System Alert Simulation – Python

- Implemented a simulation of a distributed system where devices propagate alerts and cancellations according to predefined rules.
- Managed simulation timing and event sequencing to ensure deterministic outcomes for concurrent alerts and cancellations.
- Gained hands-on experience in distributed systems concepts, event-driven programming, and testing strategies.

Spotify Artist Database – C++

- Implemented a doubly-linked list to manage a dynamic database of Spotify daily artist charts.
- Developed CSV parsing to read complex data formats, including handling variable genre lists.
- Applied object-oriented design principles, including constructors, copy constructors, destructors, and modular class organization.
- Enhanced understanding of data structures and memory management

EXTRACURRICULARS

Vietnamese Student Association (VSA) @ UCI – Member

Participate in cultural, social, and community-building events.

MAISS (Management Information Student Society) @ UCI – Member

Engage in tech-focused workshops, networking events, and professional development activities.

Intramural Volleyball @ UCI – Participant

Participated in team-based recreational league, developing teamwork and collaboration skills

SKILLS

Languages: Python, C++, SQL

Developer Tools: Git, GitHub, VS Code, PyCharm, CLI

Concepts: Recursion, Data Structures, Algorithms, Asymptotic Analysis