

Sean Vu

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U.S Citizen | Open to Relocation

EDUCATION

The University of California, Los Angeles

Bachelor of Science, Computational Systems | Concentration: Data Science

Expected Graduation: June 2024

Sept. 2020 - Present

Cum. GPA: 3.96

Coursework: Algorithms and Complexity, Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Introduction to Programming Languages

EXPERIENCE

Inari | C++, SQL, Matplotlib

Irvine, CA

Software Engineer Intern

June 2022- Sept 2022

- Streamlined development of unit test suites in C++ ensuring proper data input from 175 biomedical devices including blood flow measurement tools and heart rate trackers. ([Info link](#))
- Overhauled design of data visualization components to illustrate research data using Matplotlib to capture blood flow and heart rate fluctuations in 175 at-risk patients.
- Collaborated with team members to enhance testing framework coverage and improve codebase quality.

PROJECTS

Tunnel Man | C++

- Formulated a 2D pixel art game involving level-based progression, basic objective completion, and caching point system. ([Info link](#))
- Devised object-oriented programming practices allowing for game object interaction to institute a working inventory, input-triggered animations, and sound effects.
- Implemented path-finding algorithms for enemy-player interactions.
- Engineered intelligent enemy communication between player and enemy.

Tetris | C++

- Created a text-based version of Tetris utilizing object oriented programming skills and knowledge of data structures.
- Derived techniques to improve code readability and size. ([Info link](#))

Website Portfolio | HTML/CSS/JS

- Utilized HTML attributes to modify existing website architecture allowing for visualization of photos, videos, and descriptions.
- Revamped CSS/JS methods to create visually appealing UI and practical functionality including buttons, transitions, and links.

LEADERSHIP

Upsilon Pi Epsilon at University of California, Los Angeles (UPE)

Los Angeles, CA

Tutoring Chair

May 2021- Present

- Orchestrated test review and project implementation sessions for introductory computer sciences classes.
- Supervised peers through computer science topics, projects, homework. ([Info link](#))
- Demonstrated strong analytical skills to aid students on difficult problems and encouraged/taught strong problem solving skills to master difficult concepts.

University of California, Los Angeles Housing

Los Angeles, CA

Resident Assistant

May 2021- Present

- Coordinated and fostered a positive living environment promoting community, belonging, and safety in the dormitories.
- Pioneered and implemented various educational and social events for over one-hundred residents/students. ([Info link](#))

SKILLS / INTERESTS

Technical Skills: C++, Python, SQL, Linux, HTML/CSS, Microsoft Office

Interests: Docker, Kubernetes, Perl, Ruby, Go, JavaScript, JSON, XML, React, Angular, AngularJS, Spring Framework, Surfing, Cycling, Wrestling