Sean Vu

U.S Citizen | Open to Relocation

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EDUCATION

Expected Graduation: June 2024

The University of California, Los Angeles   **Sept. 2020 - Present**

Bachelor of Science, Computational Systems | Concentration: Data Science   *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)
- 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)
- 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)

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)
- 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)

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