Kyle Tsuji

(323)238-2106 | kyletsuji.github.io/portfolio/ | kyletsuji270@gmail.com | linkedin.com/in/kyletsuji/ | US Citizen

EDUCATION

University of California, Davis   **Davis, California**
Bachelor of Science in Computer Science   *September 2019 - December 2023*

- **Highlighted Courses:** Artificial Intelligence, Machine Learning, Operating Systems, Computer Architecture, Algorithm Design and Analysis, Assembly Language Programming, Game Theory, Data Structures, Object-Oriented Programming, Technology Management

PROJECTS

- **Blackjack Game (JavaScript, HTML/CSS)** - kyletsuji.github.io/portfolio/#projects
  - Front-end web development using HTML/CSS, JavaScript and DOM Manipulation
- **Deep Neural Network (Python)**
  - Worked in a group of 4 to design a deep neural network with 5 models that can detect multiple kinds of network traffic intrusions
  - Utilized data preprocessing, analyzing and comparing model results
  - Used pandas, numpy, sklearn, matplotlib libraries
- **Memory Allocator (C)**
  - Implemented a memory allocator that can allocate memory to users and free up memory
  - Requests bytes from OS during initialization, returns requested size of memory to user
  - Created a data structure to track available memory space and coalesce adjacent free space
- **Unix Utilities (C)**
  - Built alternate versions of the commonly used UNIX commands *cat, grep, zip,* and *unzip,* called *wcat, wgrep, wzip,* and *wunzip.*

TECHNICAL SKILLS

Languages: Javascript, Python, C++, Java, R, C, HTML/CSS, SQL, Assembly, Erlang, Prolog, Haskell
Tools: React, Node.js, Express.js, Unix/Linux, Github, Jupyter, Latex, MatLab

EMPLOYMENT

Computer Science Tutor   **Los Angeles, CA**
Independent   *January 2024 - Present*

- Taught object oriented programming, code tracing, and writing functions in Java
- Prepared High School students for the AP Computer Science Exam

Math Tutor   **Los Angeles, CA**
Mathnasium   *February 2024 - Present*

- Taught various areas of math ranging from calculus to geometry, working collaboratively with instructors to ensure optimized learning

Volunteer Work: Roundhouse Aquarium, Pediatric Therapy Network