

Kyle Tsuji

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EDUCATION

University of Illinois Urbana-Champaign

Master of Computer Science

[Anticipated] December 2025

- **Relevant Courses:** Data Mining, Methods of Applied Statistics

University of California, Davis

Bachelor of Science in Computer Science

December 2023

- **Relevant Courses:** Artificial Intelligence, Operating Systems, Computer Architecture

PROJECTS

- **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*.
- **Blackjack Game (JavaScript, HTML/CSS)** - kyletsuji.github.io/portfolio/#projects
 - Front-end web development using HTML/CSS, JavaScript and DOM Manipulation

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

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

Mathnasium

February 2024 - Present

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