Tommy Tran

Mathematics-Computer Science Major

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EDUCATION

University of California, San Diego:
Mathematics-Computer Science, B.S

September 2018 - Present

3rd Year Student
GPA: 3.6/4.0
Expected Graduation: June 2022

RELEVANT COURSES

Computer Science Courses:
CSE 30 - Computer Organization and System Programming
CSE 100- Advanced Data Structures
CSE 101 - Design & Analysis of Algorithm
CSE 105- Theory of Computation
CSE 110 - Software Engineering
CSE 130 - Programming Lang:Principal & Paradigm

Cognitive Science Courses:
COGS 118A - Supvr/Mach Learning Algorithms
COGS 108 - Data Science in Practice

Math Courses:
Math 20E- Vector Calculus
Math 18-Linear Algebra
Math 183- Statistical Methods
Math 109 - Mathematical Reasoning and Discrete Math

LINKS

https://www.linkedin.com/in/tommy-tran-20210b177/

https://github.com/tommytran8

https://tommytran8.github.io/MyMiniProjects/

SKILLS & LANGUAGES

Javascript, Html5, CSS, Bash, Github, NodeJs

Academic Experience with: Haskell, C++, C, Java, Python, Assembly, Docker, Pandas, NumPy

PROJECTS

1. **Web based Pomodoro Timer** - group project in the CSE 110 course. Course focuses on team development, agile methods, and use of tools such as IDE's, version control, and test harnesses. My primary role in the project was to design and build the 3 of the 6 pages, build custom components, and develop the CI/CD pipeline with Github Actions workflows. For the 3 pages I also made unit and UI tests with the testing tools within the pipeline. I also learned how to utilize APIs to provide more accessibility for users.

2. **Guessdraw.io** - Web based Pictionary like game to familiarize myself with using servers, Node.js and Socket.io. Contains real-time communication between clients connected to the server when drawing and chatting.

3. **Custom Programming Language** - Built Basic Language called Nano Language using Haskell for a final project that could do lambda calculus computation and operator operations. Uses fundamentals such as inheritance and polymorphism.

4. **Several Mini-Projects:** A* path search algorithm, Sudoku, Snake, Pong Game, and Calculator - projects to familiarize myself with javascript, html, and css. Utilizes search and backtracking algorithms and certain data structures.