

Tommy Tran

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Education

University of California, San Diego

Expected June 2026

Bachelor of Science

Cumulative GPA: 3.8

Double Major in **Mathematics-Computer Science** and **Machine Learning**

Relevant Coursework: *Data Structures and Algorithms, Object-Oriented Design, System Programming and Software Tools, Operating Systems, Data Science in Practice, and Supervised Machine Learning Algorithms*

Experience

Software Engineer Intern | Meetomate (Startup)

June 2024 - September 2024

- Developed backend features using **Python**, **MongoDB**, and **FastAPI**, hosted on **GCP**, for the MVP of a meeting management app, targeting an October 2024 launch
- Collaborated with the front-end team using **React Native**, implementing **API endpoints** for user authentication, meeting scheduling, and an explore page with filtering options for personal profile pages
- Integrated **AI-driven features** to extract information from conversation logs and predict event descriptions based on user-generated titles, incorporating mock user feedback from **30 usability testers**
- Implemented **Google Maps API**, **social platform logins**, and **subscription-based features**, and resolved bugs across **3 or more updates**, ensuring long-term app stability and enhanced functionality

Web Development Intern | Resilience, Inc.

March 2024 - August 2024

- Managed educational websites to promote social-emotional learning (SEL) for K-12 students across **44 U.S. school districts**, utilizing **WordPress**, **HTML**, **CSS**, and **JavaScript**
- Developed and launched three IT projects designed to be accessible to students and parents
- Implemented website features with **40+ plugin updates**, including content additions and backend optimizations to improve database interactions, supporting functionality and enhance user experience

Projects

Qura: Curing Doubts, Simplifying Health

August 2024

- Developed a mobile application in React Native to scan **200+** medication barcodes and retrieve relevant drug data via the **OpenFDA API**, enabling over **100 users** to understand their medications better
- Integrated **OpenAI's GPT-4o-mini** to create Dr. Qura, an AI-driven model that acts as a medical expert and provides summarized drug information through **natural language processing (NLP)**
- Designed the app's interface in Figma, prioritizing accessibility for all age groups, focusing on creating a meaningful and impactful tool to help those in need better understand their medications

Gradescope Schedule Syncer

April 2024

- Constructed a full-stack web application using the **Gradescope API** to automatically generate and display a comprehensive table of users' courses, assignments, and due dates
- Utilized **Flask** for efficient backend processing and deployed the application on **PythonAnywhere**, enabling real-time data retrieval with an average response time of under **3 seconds**
- Integrated user authentication and course filtering, optimizing scheduling and workflow
- Collaborated with a team of 4 in a hackathon to produce an informative video on data privacy awareness and the risks of insecure links, prompted by over **50 user interactions** with the application

CodeWordle

December 2023

- Designed a **Python** version of the renowned game Wordle, emphasizing algorithm complexity
- Enhanced game functionality and complexity by implementing custom modes and integrating **natural language processing (NLP)** for intelligent word list generation and pattern analysis
- Crafted a dynamic feedback mechanism using **ANSI escape codes** to display color-coded visual cues for letter accuracy, word position, and incorrect guesses, resulting in an improved version of the original

Technical Skills

Programming: Python, Java, C, C++, C#, JavaScript, TypeScript, React, React Native, MATLAB

Developer Tools: HTML, CSS, Git, Vim, VSCode, Figma, Microsoft Office, Flask, Linux