

William Tsai

Full Stack Web Developer

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TECHNICAL SKILLS

Languages

HTML | CSS | Python | JavaScript | TypeScript | Java | SQL | Swift

Frameworks

Django | Flask | Angular | React

Databases

MySQL | SQLite | MongoDB

Server

Node.js | Express

Libraries

jQuery | Bootstrap

Misc.

AWS EC2 | Git | JSON | RESTful APIs

PORTFOLIO PROJECTS

Team Roster Manager (solo project)

Primary Function: A web application that allows users to create and manage sports team rosters

Details: It utilizes Sportrader's API to display the current player roster upon team creation. Its Node.js server is structured in three folders to allow for modularity and scalability. 7 Angular components are used to implement various roster management features.

Technologies used: JavaScript, Node.js, Express, Angular, MongoDB, Bootstrap, AWS EC2, RESTful API

Coders On Demand (3-person project)

Primary Function: A tongue-in-cheek e-commerce site that allows students to hire freelance programmers to take their coding exams on their behalf

Details: Personal responsibilities were to produce the template component of the website's MTV model, implement Bootstrap, and deployment.

Technologies used: Python, Django, SQLite, Stripe, Bootstrap, AWS EC2

PROFESSIONAL EXPERIENCE

Co-founder & Product Lead

Q-Cigarettes, Inc.

January 2015 – June 2016

Los Angeles, CA

Entrepreneurship: Founded company to develop the first smoking cessation app on the market delivering combination therapy, which was ultimately sold to the University of California, Los Angeles' research program

Requirements Gathering: Conducted surveys and interviews with prospective users and studied the smoking cessation industry to identify customer and market needs to help determine product features

Software Development: Led an Agile development of our Q-Cigarettes App by creating product roadmap, defining user stories and features, prioritizing product backlog, managing development sprints, and maintaining product spec documents

Cross-Functional Management: Managed collaboration among a team of 6 designers and engineers and utilized periodic team meetings and project management software (Asana) to create and implement an efficient workflow that helped reduce development time by 25% for a minimum viable product

Product Testing: Conducted functional and user acceptance testing of our App and produced detailed reports to allow engineers to replicate and fix issues

Fundraising: Collaborated with executive team to participate in pitch competitions and present our business ideas to investors, aiming to secure funding to support development and operations

EDUCATION

University of Southern California | Master of Public Health, GPA 3.72 | Los Angeles, CA | December 2014

Bucknell University | Bachelor of Arts, Chemistry, GPA 3.88 | Lewisburg, PA | July 2009

ADDITIONAL INFORMATION

Certification: Agile Project Management | LinkedIn | November 2016

Full Stack Web Development | Coding Dojo | March 2018

Hobbies: Practicing table tennis | playing guitar | swimming