

Jimmy Tsang (Ti-Chieh)

2335 Piedmont Ave, Berkeley, CA 94704 | jimmytsang@berkeley.edu | (562) 565-0351

LinkedIn: linkedin.com/in/jimmy-tsang | Website: jimmytsang.github.io | GitHub: github.com/jimmytsang

EDUCATION

University of California, Berkeley

Graduated May 2019

Electrical Engineering and Computer Science (EECS)

Courses: Data Structures and Algorithms, Structure of Computer Programming, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations, Multivariable Calculus, Three Dimensional Modeling

EXPERIENCE

Tesla

Palo Alto, CA

Software Engineering Intern

Jan 2018 – Aug 2018

- Full Stack Web and Mobile Engineering on the Tesla Energy Software Team using React, Redux, React Native, Go
- Implemented and own an entire web page on the Tesla Powerwall Configuration App saving 100 plus hours of service
- Used React Native for the Tesla Energy Mobile App with Android Studio and Xcode for development environment
- Performed data analysis on MySQL database using Tableau to search for flaw patterns with automatic machines

Cartrack USA

Santa Monica, CA

Software Engineering and Product Development Intern

May 2017 – Aug 2017

- Employed the ZOHO API to build a customizable automated chat bot that is now in production
- Used SQL to extract information from more than 6 million lines of data in Adminer for MailChimp API mass emailing
- Improved the performance in the accuracy of GPS tracking functionality by migrating to the Google Maps API

Paolucci Salling & Martin

El Segundo, CA

Web Development Intern

May 2016 – Aug 2016

- Worked with the design team to implement user-facing interfaces using HTML, CSS, and JavaScript
- Created websites and web apps from scratch through Drupal, WordPress, and Firebase
- Used HTML, CSS, Photoshop, and Dreamweaver to create a more efficient algorithm for building email advertisements

PROJECTS

- Reduxstagram - Created a web app with React-Redux where server saves the images posted and renders in order
- BearMaps - Applied graph traversal A-star search algorithm with Java to build a navigation program that finds the shortest route between two locations on Berkeley campus (similarly to Google Maps)
- Database Management System - Built a database management system using Java that resembles a query language similar to SQL. This stores unique inputs and has various functionalities like insertion, deletion, selection, and merging datasets
- Ants vs Bees - Used Python to implement a turn-based-game similar to Plants vs Zombies
- Electrical Engineering – Built a basic camera, touch sensor, and robot vehicle that responds to voice commands using machine learning for speech recognition and custom built microphone that all started from a blank circuit board
- ZimmerBot - a WebApp tool for downloading Wikipedia articles for offline usage. Lead team of engineering students integrating python scripts into web apps through flask to match Wikipedia API specs

EXTRACURRICULAR ACTIVITIES

- **DiversaTech** - Technical Consultant for Wikipedia - proposed and integrated solutions which included ZimmerBot
- **Phi Kappa Tau** - Recruitment Chair - Organized recruitment process that led to the recruitment of 12 new members
- **Berkeley Intramural Sports** - Referee Supervisor - Supervise over 20 referees and oversee intramural games
- **Cal Club Boxing Team** - Member - Prepare for competing in the National Collegiate Boxing Association league

SKILLS

Proficient: React, Redux, Javascript, React Native, NodeJs, Java, Python, Sql, Golang, Git, Rest Api, Tableau, Swagger

Past Experience: Cron, Jasmine, Enzyme, ShellJs, Php, AngularJS, Swift, Scheme, Sinon, Jasmine, Unity, Flask, PhotoShop

Languages: Fluent in both English and Mandarin