Terry Su

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Skills

Languages: Python, JavaScript, TypeScript, C, C++, HTML, CSS, Sass

Tools/Frameworks: Git, Node.js, Postman, Express.js, React.js, Next.js, React Native, Expo, Firebase, PostgreSQL, MongoDB, Flask, Jest, Tensorflow, PyTorch, Heroku, Netlify, Powershell

Professional Experience

09/2022 – 01/2023 Waterloo, Canada	**Computer Vision Developer,** *Waterloo Aerial Robotics Group*

- Used Python to integrate UART protocol for encoding/decoding byte streams with RFD900x radios as an integral component of the team's flight competition.
- Wrote a script with pySerial to raise the radio data intake rate to 115,000+ baud.
- Used PyTorch and CIFAR-10 datasets to improve classification accuracy and validation loss to 84% and 0.46 respectively on an existing CNN model.

03/2022 – 08/2022 Fremont, United States (Remote)	**Software Engineer Intern,** *Hack+* ☐

- Built Dash2, a financial management platform for organizations, providing service to 730+ student founders at Hack+.
- Created and integrated API routes/endpoints with Express.js, Google Storage, and Next.js to mitigate friction in manual receipt uploads.
- Wrote DOM unit tests using Jest to assure production-grade code quality.

01/2022 – 04/2022 Charlotte, United States (Remote)	**Frontend Developer Intern,** *Strive2Thrive Edu*

- Built and sustained components on the organization website HTML/CSS/JavaScript on the WordPress system.
- Worked alongside admin to update the UI/UX, engaging 400+ global volunteers in the relevant programs and objectives.

Projects

GoodEats ☐
- Developed a hybrid platform React Native app using the Expo toolchain that allows users to freely explore and tag restaurant choices from across the world.
- Facilitated backend end-to-end operations using Firebase Authentication and the Firestore database.
- Led a team of peers to migrate mock API calls using the Yelp Fusion API to access real-time data.

The Gamble Bot ☐
- Utilized Python3 and the Discord.py framework to build a virtual currency that can be traded and wagered by guild users.
- Attached functionalities to a MongoDB cluster database to update relevant guild/user data and sustain 500+ transactions up to date.
- Exposed the application to the Discord community via a Flask server.

SmartBrain ☐
- Developed an engaging React.js web application that enables users to engage with the Clarifai Face Detection APIs and foster competition against one another.
- Used Express.js/Node.js alongside PostgreSQL to build custom endpoints to accomplish frontend features.
- Deployed the application using Heroku.

Education

2022 – 2027 Waterloo, Canada	**Bachelor of Software Engineering - BSE,** *University of Waterloo*

- Faculty of Mathematics National Scholarship ($15,000)