# **Terry Su**

■ terry.su@uwaterloo.ca

**(**905) 317-8418

terrysu64.github.io

in terry-su

terrysu64

#### **Skills**

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

**Tools/Frameworks:** Node.js, React.js, React Native, Nuxt.js Firebase, PostgreSQL, MongoDB, gRPC, Flask, Jest, Tensorflow, PyTorch, Heroku, Docker

# **Professional Experience**

**Undergraduate Research Assistant,** *University of Waterloo* ☑

Waterloo, ON | 09/2023-Present

**Software Engineer Intern,** Dandelion Networks ☑

Toronto, ON | 05/2023 - 08/2023

- Fully refactored protocol buffers package using **Golang**, **Gomega**, **Gogink**, and **Bash** scripting, sustaining the currency of the blockchain, improving **proto file compilation time** by ~60%, and **test coverage** by ~10%.
- Leveraged the **Cobra Golang CLI** and **gRPC**, to implement the internal **P2P** node state algorithm as a core feature of the **Go SDK** architecture.
- Deployed an essential end-to-end **React Native** NFC card scan flow for digitally storing collectible game cards on **DynamoDB**, impacting **1000+** alpha testers and a **\$10M+** liquidity pool.
- Revamped the core website with Nuxt.js and integrated SEO metric analysis with a deployed Docker instance of Mautic on AWS.

**Computer Vision Developer,** *Waterloo Aerial Robotics Group* ☑

Waterloo, ON | 09/2022 - 01/2023

- 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**, increasing the speed by **25%**.
- Used **PyTorch** and CIFAR-10 datasets to improve classification accuracy and validation loss to **84%** and **0.46** respectively on an existing **CNN model**.

## **Software Engineer Intern,** *Hack*+ □

Fremont, CA | 03/2022 - 08/2022

- Built Dash2, a financial management platform, providing service to 730+ student founders at Hack+.
- Created and serviced API routes/endpoints with **Express.js**, **Google Storage**, and **Next.js** to minimize the number of manual receipt uploads and transactions.
- Wrote **DOM** unit tests using **Jest** to maintain the stability/integrity of the application.

## Frontend Developer Intern, Strive2Thrive Edu

Charlotte, NC | 01/2022 - 04/2022

- Built and sustained components on the organization's website by using the **WordPress** system and **HTML/CSS/JavaScript**.
- Worked with admin to update the **UI/UX**, improving **traffic optimization** and engaging **400+** site visitors in the relevant programs as global volunteers.

## **Projects**

#### GoodEats ☑

- Developed a hybrid platform **React Native** app using the **Expo** toolchain that allows users to freely explore and tag up to **200,000+** 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.

#### REMAX Real Estate 🗅

- Designed and implemented a full-stack Next.js/React.js application to streamline buy/sell operations for 240+ REMAX agents and hundreds of their clients.
- Facilitated the research process of \$1B+ in GTA property listings through an intuitive UI/UX designed on Figma.
- Integrated the **Notion** and **Google Maps API** to a **Node.js** server, enhancing endpoint call features.

#### **Education**

**Bachelor of Software Engineering - BSE,** University of Waterloo

2022 – 2027 | Waterloo, Canada

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