

# Terry Su

✉ terry.su@uwaterloo.ca    ☎ (905) 317-8418    📍 terrysu64.github.io    in terry-su    🌐 terrysu64

## 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

---

- |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>09/2022 – 01/2023<br/>Waterloo, Canada</p>                      | <p><b>Computer Vision Developer</b>, <i>Waterloo Aerial Robotics Group</i> <a href="#">🔗</a></p> <ul style="list-style-type: none"><li>• Used Python to integrate UART protocol for encoding/decoding byte streams with RFD900x radios as an integral component of the team's flight competition.</li><li>• Wrote a script with pySerial to raise the radio data intake rate to 115,000+ baud.</li><li>• Used PyTorch and CIFAR-10 datasets to improve classification accuracy and validation loss to 84% and 0.46 respectively on an existing CNN model.</li></ul> |
| <p>03/2022 – 08/2022<br/>Fremont, United States<br/>(Remote)</p>   | <p><b>Software Engineer Intern</b>, <i>Hack+</i> <a href="#">🔗</a></p> <ul style="list-style-type: none"><li>• Built Dash2, a financial management platform for organizations, providing service to 730+ student founders at Hack+.</li><li>• Created and integrated API routes/endpoints with Express.js, Google Storage, and Next.js to mitigate labor in manual transaction receipt uploads.</li><li>• Wrote DOM unit tests using Jest to assure production-grade code quality.</li></ul>                                                                        |
| <p>01/2022 – 04/2022<br/>Charlotte, United States<br/>(Remote)</p> | <p><b>Frontend Developer Intern</b>, <i>Strive2Thrive Edu</i></p> <ul style="list-style-type: none"><li>• Built and sustained components on the organization's website by using the WordPress system and HTML/CSS/JavaScript.</li><li>• Worked with admin to update the UI/UX, engaging 400+ site visitors in the relevant programs and objectives as global volunteers.</li></ul>                                                                                                                                                                                  |

## 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 to 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 hosted Flask server.
- SmartBrain** [🔗](#)
- Developed a full-stack 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

---

- |                                         |                                                                                                                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>2022 – 2027<br/>Waterloo, Canada</p> | <p><b>Bachelor of Software Engineering - BSE</b>, <i>University of Waterloo</i></p> <ul style="list-style-type: none"><li>• Faculty of Mathematics National Scholarship (\$15,000)</li></ul> |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|