

Anne Sun

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TECHNICAL SKILLS

Languages: C, C++, C#, Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, PHP, R
Frameworks and Libraries: React, Next.js, Node.js, Express.js, MongoDB, Bootstrap, Redux, React Native, Tensorflow, GSAP, TailwindCSS
Developer Tools: Git, Microsoft Azure, Docker, VS Code, Linux, Bash, Unity, Postman

EXPERIENCE

Software Developer Sep. 2024 – Dec. 2024
The University of Toronto *Toronto, ON*

- **Enhanced scalability** by migrating an **Express.js** monolith into **5+ microservices** for an application used by **thousands of university staff**
- Optimized data retrieval by moving intensive calculations from application code to **SQL queries**, **increasing performance by 10%**
- Implemented microservices to query **SQL databases** via the **OData client**, facilitating efficient data access and integration across systems

Canada Learning Code Ambassador Oct. 2022 – June 2023
Canada Learning Code *Burnaby, BC*

- Led and organized Moscrop Learns Code Club meetings that taught a diverse group of **30 students HTML and CSS**, introducing coding to underrepresented communities within the STEM industry
- Raised **\$300+** through fundraisers to fund highschool students in taking the Canadian Coding Competition

PROJECTS

Estia | *React, CSS, Express.js, PostgreSQL, Redux, JavaScript*

- Developed a technical project curation application using **React, Redux, TypeScript, Express.js and PostgreSQL** allowing **50+ users** to post, comment, save and like projects
- Engineered a comment and voting system for **60+ projects** with **real-time interactions** to handle high user activity while **ensuring data consistency**
- Optimized a search and project filtering system by **reducing the search time by a factor of 3**

Wastely | *Tensorflow, Python, React, Express.js, JavaScript, CSS, GSAP, Docker, AWS*

- Developed a **Convolutional Neural Network (CNN)** with **89% accuracy** using **Tensorflow, Python** and the **Keras Sequential Model** to identify recyclable and organic waste
- Deployed the image classification model to the cloud, integrating it into a **React** application using **FastAPI, Docker, and AWS**
- Leveraged **Express.js** and **Mapbox-GL** to retrieve and **map GeoJSON Coordinates** using the Vancouver Litterbin API

YelpCamp | *React, Redux, Passport.js, Bootstrap, JavaScript, Express.js, Node.js, MongoDB,*

- Utilized **Express.js** to handle **restful API** calls and **MongoDB** to store data for **50+ campsites**
- Applied **React, Bootstrap**, and **JavaScript** to craft dynamic and seamless user interfaces for login, registration, campsites, adding and editing campsites
- Implemented user **authentication and authorization** using **Passport.js, Redux** and **express-session** for global state management and session persistence

EDUCATION

University of Waterloo 2023 - Present
Candidate for Bachelors of Computer Science *88.70/100 Cumulative GPA*

Relevant Courses: Algorithms, Data abstraction, Object Oriented Programming, Statistics, App Development, Numerical Computation, Data structures