

# Ethan Tang | UX/UI Design Focused Software Engineering Student

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[emma-t.github.io/portfolio/](https://emma-t.github.io/portfolio/)

## SKILLS

**Languages:** (Proficient) Java, Python, Vue.js, HTML, CSS, Javascript, Typescript (Familiar) Node.js, React.js, SQL, C++

**Tools:** Git, Angular, Node, Microsoft Azure, Azure DevOps, Pycharm, Android Studio, G-Suite, Photoshop, Figma

## EMPLOYMENT

### Web Application Developer

Ottawa, ON

Government of Canada (Department of Finance)

June 2024 - December 2024

- Implemented and maintained end-to-end web application using **Vue.js** and **Typescript**
- Documented issues and new features in the **software architecture** on a daily basis
- Communicated with both development and business side users, resulting in a **25% reduction** in client **technical issues**

**Tools:** Vue.js, Typescript, Pinia, Tailwind, Microsoft Azure Active Directory B2C

### QC Automation Test Developer

Ottawa, ON

DistillerSR

September 2023 - December 2023

- Designed, developed, and executed automated test cases from integration testing to load testing, resulting in a **20% reduction** in the number of **backlogged tickets**
- Worked closely with development and QA teams to review requirements and define manual test plans
- Maintained and organized **all records, documentation, and other files** associated with quality engineering and inspection

**Tools:** Javascript, HTML, CSS, Cypress.io, Zephyr, Jira, Agile

### Full-Stack Developer

Ottawa, ON

Government of Canada (Department of Finance)

January 2023 - April 2023

- Developed end-to-end web application using **Vue.js** for frontend and **Node.js** with **SQL** for backend development
- Ensured code quality and adhered to coding best practices by implementing daily commits under senior developer mentorship, resulting in a **25% reduction in bugs and issues**

**Tools:** Vue.js, Node.js, Microsoft Azure, HTML, JavaScript, CSS, SQL, MongoDB, Postman

## PROJECTS

### Real-Time Computer Vision Calculator | ([github.com/emma-t/computer-vision-calculator](https://github.com/emma-t/computer-vision-calculator))

- Implemented a calculator that tracks hand movements and gestures with OpenCV to do mathematical calculations.

**Utilized:** Python, OpenCV, Pycharm, GitHub

### Meal Ordering and Delivery Android Application

- As part of a software engineering course, developed a responsive Android application with 3 students using Android Studio and Firebase API which enabled users to order meals as clients and accept orders as chefs.

**Utilized:** Android Studio, NoSQL (Firebase), Git

### LiDAR Terrain Clustering Algorithm

- Built a clustering algorithm based on nearest neighbor algorithms and improved spatial indexing with 3D k-d trees
- Developed a data visualizer that digitally maps terrain topological information for autonomous vehicles

**Utilized:** Java, Python, Open3D, Git

## EDUCATION

### Bachelor of Applied Science in Software Engineering

September 2021 - December 2025

University of Ottawa

GPA: 3.5/4.0

- Classes:** Data Structures and Algorithms, Discrete Structures, Operating Systems, Databases, Web & User Interface Design
- Clubs:** VP IT for Engineering Student Society (2022-2024), Hack the Hill (2023-2024), IEEE uOttawa (2022-2023)

## ACHIEVEMENTS

- Hackathons:** uOttHack 2023 Hackathon 1st place CSE category winner ([github.com/emma-t/007Secure](https://github.com/emma-t/007Secure))
- Certifications:** Microsoft Certified Azure AI Fundamentals