Ethan Tang | Efficiency-Driven Software Engineering Student

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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 - Present*
- 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)
- 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:** uOttaHack 2023 Hackathon 1st place CSE category winner (github.com/emma-t/007Secure)
- **Certifications:** Microsoft Certified Azure AI Fundamentals