

Vivian Tu

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Career Objective: To continually advance my skills in software development by embracing emerging technologies and ultimately transition into a leadership role where I can drive innovation and lead teams to achieve project objectives.

EDUCATION

University of Toronto (UofT) At St George Campus | Toronto, Ontario

BASc in Computer Engineering + PEY & Engineering Business Minor | GPA: 3.48

September 2021 - April 2026

TECHNICAL SKILLS

Language: C, C++, C#, Python, Java, HTML / CSS / Javascript, Groovy, MATLAB, Shell scripting, Verilog

Tools: Git / Github / Bitbucket, PostgreSQL, Google Colab, Postman, Jira, Jenkins, Logboy, Maven, AWS Cloud Services, React, Razor Pages, Valgrind, Linux OS, Azure DevOps, Wireshark, MongoDB, Microsoft SQL, Jupyter Notebook,

Frameworks/Architecture/Libraries: REST Web APIs, Playwright, Pytorch, ASP.NET, Model Context Protocol (MCP)

Professional: Communication, Collaboration, Problem-solving, Organization, Resiliency, Adaptability, Creativity, Optimism

PROFESSIONAL EXPERIENCE

Software Developer In Test | Genesys | North York, Ontario

May 2024 - August 2025

- Led QA efforts for multiple epics, including **drafting test plans**, developing test automation, performing manual testing, organizing bug hunts, and collaborating with team members to ensure product quality and reliability
- Built a **React** TypeScript component integrating a Web Messaging SDK with authentication, real-time progress tracking, replacing a deprecated tool and providing the internal team a reliable testing platform
- Led daily monitoring of services to detect and resolve issues quickly, ensuring system stability and performance
- Employed the use of **Java and Amazon Q** to develop code for **test automation**, resulting in increased efficiency
- Upgraded test cases from using **Selenium** to **Playwright**, leading to **2x faster** runtime and more stability.

Software Test/Software Development | Mirion Technologies | Concord, Ontario

Summer 2022 & 2023

- Used **HTML, CSS, JavaScript, Razor Pages, C# and ASP.NET** to update a web application with new features, improving usability
- Quickly learned and completed extensive API testing by using **Postman** unit tests in preparation for **test automation**
- Learned and became more familiar with utilizing **MongoDB and Microsoft SQL** while testing an API.

PROJECTS

Banana Ripeness Classification Model via AI-Deep Learning | Developer

January 2024 - April 2024

- Developed a deep learning model in a group of 4 using **Pytorch and Numpy libraries** and **Google Colab** to implement a **convolutional neural network** that also utilizes **transfer learning** to achieve a **90% overall accuracy and F1 score** in classifying a banana's ripeness between 4 categories

Geographic Information System (GIS) Software Program | Developer

January 2023 - April 2023

- Implemented **Heuristic Algorithms** using C++, GTK and **Git** with a team of 3 to create a GIS (UI included) that also approximates a solution to a variant of the Travelling Salesman problem, scoring within the **top 20** out of around 100 groups while achieving an average of **60 FPS** on the UI

LEADERSHIP EXPERIENCE & EXTRACURRICULARS

Team Manager & Member | Iron Dragons Dragonboat Team | UofT

May 2023 - Present

- **Managed** attendance, **tracked** team progress, and **recruited** potential new members, resulting in greater coordination and ease in roster planning for the team coaches
- **Managed and resolved concerns** of team members, resulting in increased trust and more efficient management
- **Coordinated and communicated** with general managers to provide progress updates and report important information (team needs and plans), resulting in a cohesive organization within the entire club.