Terry Tian

403-918-2055 | terry.tian@mail.utoronto.ca | LinkedIn | Github | Website

Technical Skills

Languages: JavaScript, Python, Java, HTML/CSS, C, TypeScript, Assembly, R
Tools & Frameworks: Azure, Docker, Git, Maven, Spring, MERN, MySQL, Jest, TailwindCSS, PyTorch, ONNX

Work Experience

Machine Learning Developer Intern May 2023 - Current
Ontario Public Services - Ministry of Education *Toronto, Ontario*

- Enhanced search-engine accuracy by 30 percent by deploying a fine-tuned SBERT transformer language model
- Reduced PM workload by automating meeting transcript summarization with Azure Cognitive Services
- Implemented Identity Access Management through Azure AD
- Provided document search and storage for 3 clusters with web applications built on Spring MVC/Tomcat

Software Developer Intern➢ Sept. 2022 - Dec. 2022
Voiceflow *Toronto, Ontario*

- Shortened chat-bot developmental time by 20 percent by providing prompt response suggestions
- Developed a chat-bot response recommendation system by training on customer-agent conversation transcripts
- Architected a REST API in Express and Node.js to facilitate server-client interaction
- Obtained 90% integration and unit test coverage through a CI/CD pipeline in GitHub Actions with JEST

Software Developer Intern July 2021
Phidgets Inc. *Calgary, Alberta*

- Designed 3 educational firmware kits (C# and Java) utilized by 10 high schools citywide
- Wrote GUI setup, and usage tutorials for Java IDEs (Eclipse, NetBeans, Processing)

Projects

Project Attica ➢ Oct. 2022 – Present

- Reduced scheduling overhead time by supplying a platform to automate scheduling processes
- Designed an API to ingested user calendar data into a single SQLite DB integrated with the electron framework
- Built a task-schedule front end dashboard in Vue.js to help users classify and organize tickets

Lookism @ Hack the Valley ➢ Oct. 2022

- Created a social media application that offers tailored fashion recommendations based on individual preferences
- Implemented authentication services for access to the MongoDB using JWT and BCrypt
- Produced a multi-page web interface using React, Tailwind CSS, and ChakraUI
- Built adaptive DNN model with TensorFlow to analyze photo-prompt affinity

COVID-19 Graphical Interface ➢ Dec 2021

- Performed data wrangling in Python and NumPy on the Our World in Data, COVID-19 data set
- Enabled users to explore trend lines between 10 different indexes through a robust GUI visualization tool built on Tkinter and Matplotlib

COVID-Cam @ Hack Princeton ➢ Nov 2021

- Utilized OpenCV, YOLOv3, and a CNN to monitor security camera footage, enabling real-time detection of social-distancing violations
- Implemented a depth approximation method from 2D images using spherical geometry of target heads

Education

University of Toronto Sept 2021 – Apr. 2025

- **GPA: 3.77/ 4.00**
- Honours Bachelor of Science in Computer Science and Data Science, Dean's List
- Relevant Coursework: Machine Learning, Data Structures and Algorithms, Statistical Analysis I & II, Software Tools and Systems Design, Principles of Software Engineering