

Josephine Tjhia

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EDUCATION

University of Toronto

Bachelor of Science in Computer Science, Minor in Art History & Visual Culture

Toronto, ON
Sep. 2022 - Present

EXPERIENCE

DevOps Engineer

Sun Life Financial

January 2024 - Present

Toronto, ON

- Spearheading the development of a Java REST API from inception to deployment, enabling dynamic cron job scheduling at runtime, resulting in a 50%+ increase in testing efficiency by eliminating need for redeployment
- Implementing comprehensive unit tests for pipeline libraries, adhering to Agile methodologies, to ensure 100% coverage and codebase reliability. Authoring documentation on Docker and Kubernetes for future co-op students

President

Hack the Valley – University of Toronto

January 2024 - Present

Toronto, ON

- Leading a diverse team to ensure a seamless 3-day experience for the 700 expected attendees, overseeing logistics, sponsorship acquisition, marketing, and web development for the 2nd largest hackathon in Canada

Vice President of Mentorship

Women in Computer Science, Statistics, & Mathematics – University of Toronto

August 2023 - Present

Toronto, ON

- Founded the AccelHERation mentorship program for first-year students in the CSM department, connecting them with upper-years to support women's success in technology by creating monthly workshops on industry skills

Coding and Artificial Intelligence Instructor

University of Toronto Jr. DEEP

May 2023 - August 2023

Toronto, ON

- Empowered 100+ students to develop coding and AI skills by designing lessons that transform technical topics into youth-friendly language, inspiring students to pursue studies in computer science and artificial intelligence

Technology Mentor

Cyber-Seniors: Connecting Generations

August 2020 - November 2020

Toronto, ON

- Mentored senior citizens across North America to troubleshoot technological barriers on various digital devices in one-on-one virtual sessions during the pandemic, developing intergenerational relationships by guiding seniors

PROJECTS

Sign Language Detection | Python, Tensorflow, Keras, NumPy, Matplotlib, OpenCV

March 2024

- Developed a sign language model, integrating action detection and a keypoint detection model. Applied TensorFlow and Keras to construct a deep neural network featuring LSTM layers, managing keypoints
- Orchestrated the creation of a sophisticated framework that encompasses keypoint extraction, LSTM-based action detection modeling, and real-time prediction from video sequences

Social Questionnaire App | Python, Flask, OpenAI GPT

August 2023

- Created a REST API with methods to manage phase changes, user data, and logic. Received and responded to requests, transmitting information in the JSON format
- Implemented GPT by calling OpenAI's API to generate most-likely-to questions. Collaborated with a partner to integrate front and back end, creating a social app that uses polling to strengthen friendships

TECHNICAL SKILLS

Languages: Java, Python, C, C#, SQL, JavaScript, Groovy, HTML, CSS

Frameworks: Flask, JUnit, Kubernetes, OpenCV, Tensorflow, Keras, PyTorch

Developer Tools: Git, Unity, Jenkins, Postman, NumPy, Matplotlib, Pandas

AWARDS

Kabam's GameChanger Scholarship (\$5000)

December 2023

University of Toronto Dean's List

October 2023

University of Toronto Renewable Entrance Scholarship (\$3000/year)

September 2022 - Present

Duke of Edinburgh's Silver Award

July 2023

Governor General's Academic Medal

June 2022