

# 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