Josephine Tjhia

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EDUCATION

University of Toronto   Toronto, ON
Bachelor of Science in Computer Science, Minor in Art History & Visual Culture   *Sep. 2022 - Present*

EXPERIENCE

DevOps Engineer   January 2024 - Present
Sun Life Financial   *Toronto, ON*
- Spearheading the development of a Spring 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   January 2024 - Present
Hack the Valley – University of Toronto   *Toronto, ON*
- Leading a diverse team to ensure a seamless 3-day experience for the 750 expected attendees, overseeing logistics, sponsorship acquisition, marketing, and web development for the 2nd largest hackathon in Canada

Vice President of Mentorship   August 2023 - Present
Women in Computer Science, Statistics, & Mathematics – University of Toronto   *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   May 2023 - August 2023
University of Toronto Jr. DEEP   *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   August 2020 - November 2020
Cyber-Seniors: Connecting Generations   *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, Spring Boot
Developer Tools: Git, Unity, Jenkins, Postman, NumPy, Matplotlib, Pandas

AWARDS

Kabam's GameChanger Scholarship   December 2023
University of Toronto Dean's List   October 2023
University of Toronto Renewable Entrance Scholarship   September 2022 - Present
Duke of Edinburgh's Silver Award   July 2023
Governor General's Academic Medal   June 2022