

Asher Khan

416-856-8046 | masherker03@outlook.com | [linkedin.com/in/asher-khan13](https://www.linkedin.com/in/asher-khan13) | github.com/asherker7 | asherkhan.ca

EDUCATION

McMaster University

Sep. 2021 – Apr 2026

Bachelor of Engineering in Software Engineering - GPA: 3.9

Hamilton, ON

- Awarded the **McMaster Engineering Award of Excellence** for strong academic performance.
- **Relevant Coursework:** Data Structures & Algorithms, Databases, Probability and Statistics, Software Design

EXPERIENCE

Ericsson

September 2023 – August 2024

5G Software Developer Intern

Ottawa, ON

- Contributed to the development of **EricChat**, an internal chatbot for handling company-wide user queries, improving efficiency by **91%**. Implemented data scraping, tokenization, and fine-tuning of LLM models using **Hugging Face** and **NLTK**.
- Built **EDF Search Engine**, a search platform for **10,000+** employees, using ElasticSearch. Designed the full-stack application and automated data pipeline, deployed via **Docker** on Ericsson servers.
- Led project management for the EDF Search Engine, coordinating cross-functional teams, managing deadlines, and overseeing documentation.

Blue Guardian

May 2023 – August 2023

Machine Learning Engineer Intern

Remote, London, ON

- Optimized a **machine learning model** using **PyTorch** for tonality detection and emotional insight, improving mental health detection for early signs of depression and anxiety.
- Integrated **OpenAI Whisper API** for Speech-to-Text (STT) and Text-to-Speech (TTS) capabilities in the web application.

PROJECTS

EthniVision | *Tensorflow, Keras, Pandas, NumPy, Docker, React, Node.js, MongoDB*

- Developed a multi-class classification **Neural Network** using **Residual Blocks** trained on the **FairFace** dataset, achieving **87%** gender, **72%** ethnicity, and **56%** age accuracy.
- Preprocessed **108,501** images with **dlib Facial Recognition** for face filtering, performed data exploration and feature engineering, then deployed the model via **Docker** and **TensorFlow** to a Node.js web app.

NFL Record Predictor | *Sci-kit Learn, Pandas, Flask, SQLite*

- Built a website for predicting NFL team records using **Decision Tree Regression** with **83%** accuracy and a **1.3-win** margin of error.
- Integrated statistics from web-scraped data and API sources, visualized results through **Flask** with an integrated **SQLite** backend.

Island Generator | *Java, Maven, JUnit, ApacheCLI*

- Created a Java-based island mesh generator using **SOLID** principles, deployed via **Command Line Interface**.
- Developed unit tests using **JUnit** and OOP, incorporating continuous integration practices.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, Java, Bash, HTML, CSS

Libraries: Tensorflow, PyTorch, Sci-kit Learn, Keras, SciPy, Pandas, NumPy, Matplotlib

Other Tools: Azure, MySQL, MongoDB, Docker, Django, React, Jira, Git, Linux, Jenkins