

# Asher Khan

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## Education

### McMaster University

09/2021 - 04/2025

Bachelor of Engineering - Software Engineering

Cumulative GPA: 3.9 on a 4.0 scale

### Relevant Courses:

- Data Structures and Algorithms
- Software Design 1 - Software Development

## Experience

### McMaster SumoBots

Hamilton, ON | 09/2021 - 04/2022

- Participated in contests and built on foundational coding skills and their applications. Contributed to programming the robot's movement utilizing sensor technology and machine learning.

## Projects

### NFL Record Predictor - Python, Flask, sci-kit learn, HTML, CSS

- Created a full-stack website that allows users to predict the record for each NFL team in the 2022-2023 season using past statistics and user-made statistics with API's.
- Back-end data display built using Flask, Jinja2, and Bootstrap, and handles user-inputted and web-scraped data using databases with SQLAlchemy.
- Predicted team records with an accuracy of 83% and an average margin of error of 1.7 wins per team by utilizing the Decision Tree Regression model in the Sci-kit Learn library

### Island Generation - Java, Maven, Apache CLI, JUnit

- Created a Java application that generates an island mesh with different properties based on the CLI
- Worked with a client with a hard deadline and followed the software development lifecycle
- Utilized SOLID and OOP principles, and incorporated DevOps technologies by implementing JUnit

### Workout Tracker - TypeScript, Python, Jenkins, Angular, Django

- Developed a website that allows users to track their workouts, records, and gain knowledge regarding workout splits and exercises for certain muscle groups
- Created the full-stack web application using Django serving a REST API with Angular as the frontend
- Created a CI/CD pipeline using Jenkins on a Linux environment

## Skills

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**Languages:** Python • Java • JavaScript • TypeScript • HTML • CSS • C • Bash • SQL • Git

**Technologies:** React.js • Node.js • TensorFlow • sci-kit learn • pandas • NumPy • Docker • Maven • Flask • JUnit

## Awards & Activities

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McMaster Engineering Award of Excellence • Awarded for achieving a final average of 95% or higher  
Bishop Reding CSS • 98% top 6 in Grade 12 • Football team • Track team • Robotics team