

# Aryaan Sheth

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## EDUCATION

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### McMaster University

Bachelors in Honours Computer Science, Minor in Anthropology

Hamilton, ON

Expected Graduation 2027

- Courses: Object Oriented Design, Data Structure and Algorithms, Database Design, Concurrent Systems

## SKILLS

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- **Languages:** Python, Java, C/C++, C#, Golang, HTML/CSS, SQL(PostgreSQL, MySQL, IBM DB2, Oracle), JavaScript
- **Tools:** Git, Docker, Maven/Gradle, Azure (DevOps), Spring Boot, AWS (S3, EC2, Lambda, DMS, RDS), .NET Core, JUnit

## EXPERIENCE

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### Cloud Analyst Intern

Sun Life Financial

Waterloo, ON

Jan 2025 Incoming

### Software Engineer Intern

Sensor Technology Ltd.

Collingwood, ON

May 2024 - December 2025

- Developed a custom **TCP/IP** network protocol wrapper and custom software to interface with proprietary hardware in real time using **C#** and **.NET Core** to facilitate real-time data analysis and visualization
- Developed **Bash** and **PowerShell** scripts to automate and manage **Python** environments across user machines to streamline development and testing processes by **40%**
- Developed a **Go** backing using **FiberV2** to interface with **IOT** devices in real-time using **Nix** to manage dependencies. Hosted on a local server via **NGINX** for secure access and **Load Balancing**. Developed frontend using **NextJS** and **Typescript**
- Migrated legacy **Winforms** applications to cross-platform solutions via **Avalonia** using **.NET 9.0**. Integrated with **Azure PostgreSQL** for data storage and analysis using **Entity Framework Core**

### Software Developer Intern

Innovation, Science and Economic Development Canada

Ottawa, ON (Remote)

May 2023 - Dec 2023

- Reduced operational costs by over **25%** and increased service uptime to **99.9%** by performing cloud-based database migrations leveraging **AWS Database Migration Service (DMS)** and **Schema Conversion Tool (SCT)**
- Developed **HTTP** mock server requests using **Java Spring Boot** and **Red Hat JBoss** to fetch unique server uri's on startup to avoid user re-login on system restarts and added unit tests using **JUnit** to cover changes
- Automated **SQL** query generation to reduce time spent on data analysis by **50%** using **Python (Pandas)** scripts
- Engineered **AWS Sagemaker** Machine Learning Pipeline with **AWS S3** for predicting e-commerce customer churn. Achieved **98%** accuracy using **XG-Boost**, **Hyper Parameter Tuning**, and optimized the AUC with **Binary Logistic Regression**

### Full Stack Developer

CollegeSouk

New York, NY (Remote)

Sept 2022 - April 2023

- Developed scalable backend **REST API** following MVC architecture using **Java Spring Boot** and **MongoDB**, supporting over 9000+ active users
- Developed **Redux RTK** endpoints to allow for complex communication between internal servers to facilitate large-scale data transfer generated via API requests

## PROJECTS

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### tAIket

Deltahacks X

Winner

MedX Challenge

- Developed a text analysis tool using **PyTorch**, and **HuggingFace** for cosine similarity to create a fuzzy document parser with **NLTK**, achieving **90%** keyword extraction accuracy

### gopds

Go Package

- Developed a **Go** package to interface with the **Linux** systemd GPS daemon to fetch GPS data in real-time and parse it into a usable format for applications