Michael Scott

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Education

University   **Expected Graduation: May 2026**
Bachelor of Computer Engineering — Minor Artificial Intelligence   *Location*
- Golden Key Honours Scholar — **GPA: 3.78**
- Courses: Software Engineering Practice, Applied Machine Learning, Operating Systems, Computer Architecture, Model-Based Programming, Algorithms and Data Structures, Intro. to Software Engineering

Work Experience

Tech Company   **May 2024 – Sep 2024**
Machine Learning Engineer Intern   *Location*
- Engineered **Large Language Models (LLMs)**, including **BERT** and **Attention Models**, to analyze software engineering requirements and generate accurate dependency lists, improving project planning efficiency by **37%**
- Analyzed **1200+** software requirements monthly using **scikit-learn (classification models)**, **spaCy**, and **NLTK** in **Python**, saving the company **$20,000 annually** by decreasing project lead times
- Integrated **TF-IDF vectorization** to detect similarities in software requirements, focusing on **preprocessing**, **model training**, **hyperparameter tuning** and **clustering** to optimize **NLP** analysis processes

Tech Company   **May 2023 – Sep 2023**
Backend Engineer Intern   *Location*
- Designed **30+ AWS Lambda Functions**, strategically leveraging **Lambda layers** to increase processing speed by **35%** and re-usability by **52%**, resulting in cost savings of **$1,000** per large scale deployment
- Implemented **15+** server less workflows using **AWS Step Functions**, seamlessly integrating **REST APIs** and rigorously tested with **Postman**, resulting in a **65%** reduction in execution time and enhanced operational efficiency
- Crafted a **Spring Boot** application with a **Drools** logic engine, containerized it using **Docker**, and seamlessly deployed it on **AWS** using **EC2**, strategically allocating cloud resources to ensure enhanced scalability and reliability

Tech Company   **Jun 2022 – Sep 2022**
Software Engineer Intern   *Location*
- Programmed and deployed a **Python**-based data migration pipeline on **Azure**, achieving a **50% reduction** in transfer time for **100+ terabytes** of critical business data
- Centralized a **SQL** database infrastructure on **Azure**, enhancing data accessibility and security for **50+ stakeholders**, resulting in a **30% improvement** in query performance across the organization

Projects

McGill Scheduler | *Website* | *Source Code*   **ReactJS** | **Spring Boot** | **PostgreSQL**
- Developed and deployed a full-stack web application that enhanced academic experiences of **1,000+ McGill students**
- Utilized **PostgreSQL** for data storage, **Spring Boot** for a **RESTful API** backend, and **ReactJS** for the user interface

Empor | *Website*   **NextJS** | **TypeScript** | **Spring Boot**
- **Led the development** of a full-stack marketplace application for **1,000+ university students**, utilizing **NextJS** and **TypeScript** for the frontend, **Prisma** as the ORM, **Supabase** for the database, and a **Spring Boot** backend

Premier League Match Predictor | *Website* | *Source Code*   **Pandas** | **Scikit-Learn** | **Python**
- Created a model to predict matches, integrating **data scraping** with **pandas** and **machine learning** with **scikit-learn**

Leadership

SWErikCodes | *TikTok* | *YouTube* | *Instagram*   **Jun 2023 – Present**
- Created educational coding content for **75,000+** developers, with **4,200,000+** impressions per month
- Produced coding tutorials on advanced topics such as **data structures**, **algorithms**, and **software design principles**

Technical Skills

Languages: Python, Java, SQL, HTML5, CSS, JavaScript, Go, C, VHDL

Developer Tools: AWS, Postman, PowerBI, Git, Azure, Docker, Jira

Libraries/Frameworks: Spring Boot, ReactJS, PostgreSQL, NextJS, VueJS, NodeJS