

Moaz Sholook

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EDUCATION

Carleton University

April 2027

Bachelor of Computer Science Honours, Software Engineering & AI/ML Stream - CO-OP option

Ottawa, ON

- **GPA:** 3.3/4.0
- **Relevant Course Work:** Object Oriented Programming (Java), Object Oriented Software Engineering (C++), System Programming (C), Software Engineering (C++), Web Development (HTML/CSS/JavaScript), DSA (Java)

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML, CSS, Embedded C, Swift, SQL, Go, Rust, Ruby
Frameworks: Spring Boot, React.js, Node.js, Express, Tailwind CSS, JavaFX, Flask, TensorFlow, PyTorch
Developer Tools: Linux, MacOS, Eclipse, Git, JIRA, Bitbucket, Sourcetree, AWS, Jenkins, MongoDB
Other: Raspberry Pi, Arduino

EXPERIENCE

Student Programmer/Analyst

January 2025 - Present

Innovation, Science and Economic Development Canada

Ottawa, ON

- Designed and implemented dynamic user interfaces by developing **LWCs** using **Salesforce** technologies
- Optimized **JavaScript** classes that incorporate **SQL queries** and **DML** operations to streamline processes
- Followed **Agile** methodologies regarding software development and deploying code from QA to Production
- Completed **1-2 bugfix/feature tickets per week**, contributing to a **4%** increase in MyCIPO adoption rates
- Modified **JavaScript** and **HTML** code of a page to update button disable logic, preventing users from violating guidelines, streamlining the application acceptance process and reducing immediate application rejections by **20%**
- Refactored **Java** code and **RESTful APIs** to reduce code smells by **87%** to improve maintainability
- Utilized **Jenkins** for debugging and checking build errors

PROJECTS

Momento - Hack the Hill 2024 | Python, Raspberry Pi, MongoDB, ReactJS

[Github](#)

- Assembled a device using a **Raspberry Pi** and a compact webcam to create a fully functional wearable
- Automated image capture functionality using **Python (OpenCV)**, ensuring efficient processing of visual data
- Integrated **OpenAI's image recognition API** to analyze captured images and describe them in real time
- Configured a **.env** file to manage environment variables and deploy the Flask server for backend integration
- Designed and implemented a **MongoDB** database to store captured images and their corresponding descriptions
- Developed a **ReactJS** web app with an AI-powered chat assistant (**ChatGPT API**) and a journaling interface
- Leveraged **Git** for effective version control and team collaboration throughout the development process

Swishalytics | Python

- Developed a predictive **Python** model to forecast NBA outcomes using historical data and **machine learning**
- Used **Splunk** to process and analyze NBA data, ensuring accurate datasets for model training and predictions
- Used a **Random Forest algorithm** to analyze NBA stats, improving prediction accuracy and insights

Premier League Top Scorer Database | Python, SQLite

[Demo](#) [Github](#)

- Designed the schema for a database that contains Premier League seasons, champions, players and top scorers
- Populated the **SQLite** Database with Premier League top Scorers and Champions from 1995-2024
- Created a **Python** CLI with a menu of options for user to request
- Included **1-to-many** and **1-to-1 queries** for viewing top scorers and champions, while ensuring scalability

EXTRACURRICULARS

Carleton BioCare - Software Developer

March 2025 - Present

- Designed the PCB for the prosthetic arm's control system, ensuring seamless integration with ECG sensors
- Programmed finger flexion using ESP32, optimizing motor control for responsive movement
- Developed a **React Native** mobile app, enabling wireless control and real-time feedback for user interaction