# Samia Anwar

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## **EDUCATION**

#### McMaster University

Software and Biomedical Engineering, BEng. BME.

Hamilton, ON • Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming (Java), Operating Systems (C), Networks, Concurrency, Databases (SQL)

## **TECHNICAL SKILLS**

Languages: Python, JavaScript, Java | Front-end: React, Vue, Flutter, Next.js, TypeScript, TailwindCSS Back-end: Flask, Node.js, PostgreSQL, GraphQL | Deployment: Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker

## **EXPERIENCE**

<ul> <li>Healthcare Systems R&amp;A Software Engineering Research Assistant</li> <li>Developed a key-point detection algorithm with 85% accuracy using Python, TensorF.</li> <li>Annotated 600+ images for training and testing to improve model accuracy by 15% us</li> <li>Presented findings at bi-weekly company-wide meetings, with 50+ attendees</li> <li>Authored maintainable documentation to support onboarding three developer teams</li> </ul>	1
<ul> <li>FyeLabs Software Developer Intern </li> <li>Built a cross-platform mobile app with Flutter for campus entry tracking with 500+ factors Produced an internal Vue.js-based deals pipeline improving customer intake efficiency Designed and implemented API integrations into each project</li></ul>	
<ul> <li>Llettonna Foundation         <i>April 2020 - July 2021</i> </li> <li><i>Project Manager</i>         Co-led a team of 5 to complete data-wrangling tasks to build a classification model for infant facial patterns resulting in a co-author attribution in a published scholarly journal     </li> <li>Trained a classification model using the fast.ai library to predict the outcome of in-person and online psychiatric therapy with 80% accuracy</li> </ul>	
Projects	
<ul> <li>Trading Simulator: A Stock Market Predictor with Live Trading Simulation Tools: React.js, TailwindCSS, Flask, scikit-learn, PostgreSQL, Google Cloud Run, Docker</li> <li>Leveraged stock market data to create an algorithm informed by custom random fores simulate daily trading decisions</li> <li>Formulated scalable REST APIs in Flask to implement a daily trading and a back-testi</li> <li>Deployed a visualization of live daily results using Google Cloud Run and Docker con</li> </ul>	ng framework

- MyHealthPal: An Appointment and Vaccine Tracking App for Families Tools: React.js, Node.js, AWS, GraphQL
- Designed a novel data authorization protocol enforced by Cognito and a DynamoDB database schema
- · Connected the React front-end through API integration using AWS SDK and Node.js
- Developed a user testing framework with a 50% increase in satisfaction between first and final iterations
- matisse: An npm library to convert between colour spaces

Tools: JavaScript, npm, JUnit

- Created an npm library to digitally manipulate colours with support for 5 colour spaces
- Evaluated for colour translation correctness using JUnit for automating custom test cases

Jan 2022 - Apr 2022

Sept 2023 - Apr 2024

Graduated November 2024

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