Muhammad Saad Iqbal

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EDUCATION

Queen's University   Kingston, ON
Bachelor of Applied Science in Computer Engineering   *Sep 2021 – May 2025*
Coursework: Data Structures & Algorithms, Object Oriented Programming (Java), Systems Programming (C)

EXPERIENCE

Teaching Assistant   Sep 2023 – Current
Queen's University   *Kingston, ON*
- Teaching Assistant for APSC 141 - Computer Programming.

Coding Camp Instructor   Jul 2023 – Sep 2023
TamilNadu Multicultural Association of Canada   *Ajax, ON*
- Teaching Python programming, alongside Scratch, to primary school students at a summer coding camp.
- Designed and curated Python-centric coding projects, implementing real-world applications of the curriculum.
- Successfully led a marketing campaign that increased camp enrollment, and efficiently managed camp logistics.

Software Developer - Design Team   Jan 2022 – Apr 2022
Queen's Fuel Cell Team   *Kingston, ON*
- Developed a micro-controller based system that utilized **algorithms** to process and export velocity, acceleration, and related data sets from a set of vehicle sensors including ultrasonic, temperature, and accelerometer sensors.
- Programmed data collection processes and utilized the **gnuplot** library for **data visualization**, enabling detailed analysis and interpretation of collected data.

PROJECTS

My Dream Resume | *React, Django, Python, NLP, Sci-kit Learn*
- Helps create your dream resume through AI using Natural Language Processing and Neural Network Models.
- Upload your resume and a job description to better tailor your resume to your needs.

Find My MP | *React, Node.js, Express, MongoDB*
- Developed a web app to help Canadians find their respective member of parliament.
- Integrated **REST API endpoints** provided by Open North to retrieve MP data for users.

Spotify Data Dashboard | *React, Node.js, Express, OAuth, Heroku*
- A web app to provide users with a personalized dashboard.
- Implemented **OAuth** and Spotify API to get data and used **React hooks** for data fetching.

Mindroid: AI Chat Bot | *Python, TensorFlow, Keras, Flask, React, Git*
- Created an **AI chat bot** for individuals facing mental health issues, alongside a team at NewHacks 21.
- Trained and tested a **deep learning model** created using **TensorFlow** and **Keras**.
- Evaluated accuracy of relevant query responses to be **70%**.

Pathfinding Visualization | *C++, SDL 2*
- Developed an interactive grid **GUI** to implement BFS, DFS, and **A* search** algorithms, on user generated mazes.
- Utilized the **SDL 2** library to handle graphics and **CMAKE** to ensure cross-platform accessibility.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, JavaScript, TypeScript, HTML/CSS, SQL, Bash
Frameworks: React, Node.js, Express.js, Flask
Tools: MySQL, MongoDB, Heroku, Firebase, GCP, Git, Docker, AWS S3, Linux/Unix