Abdul Moeez Shaikh

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EDUCATION

McMASTER UNIVERSITY   Hamilton, ON
Bachelor of Applied Science in Computer Science — GPA: 3.96/4.0   *Expected Graduation: April 2028*

WORK EXPERIENCE

Zebra Robotics   Oakville, ON
Robotics and Coding Instructor   *Feb 2025 – Present*
- Instructed students (ages 6–14) in hands-on robotics.
- Developed and delivered STEM-focused curricula covering coding, mechanical design, and sensor integration.
- Guided students through building and programming autonomous robots to complete challenge-based missions.
- Assessed learning progress, troubleshooting logic errors in motor control and sensor feedback loops.

Career Education Council   Mississauga, ON
Software Development Intern   *July 2023 – Aug 2023*
- Built GoPic prototype with Swift, developing UI wireframes and implementing core functionality.
- Collected user data to iterate UX and documented project for handoff scalability.
- Collaborated with developers to define roadmap and design system architecture.

PROJECTS

Commence: Automated Course Manager | *Python, Flask, PyPDF, HTML, CSS*
- Built a Flask web app that extracts key dates and grading weightings from course syllabi (PDFs) using PyPDF and the Gemini API.
- Implemented structured JSON storage for course data, enabling seamless organization and retrieval.
- Developed .ics file generation for calendar integration with Google and Apple Calendar.
- Designed a responsive HTML/CSS frontend for intuitive course management.

VocabBuddy | *TypeScript, IndexedDB, HTML, CSS, JavaScript*
- Developed a Chrome extension enabling users to highlight text on webpages and view persistent translations in English.
- Uses IndexedDB API to store personalized vocabulary dictionaries locally for offline access.
- Has a custom DOM Tree structure to track and save user highlights across page visits.
- Created an interactive UI for managing dictionaries and testing language proficiency dynamically.

CareSync: Patient Recording System | *Java, JavaFX*
- Built CareSync in Java with JavaFX for efficient patient record management, featuring intuitive screens for adding, viewing, and removing patients.
- Implemented gender-specific prompts for accurate data collection, enhancing record precision.

EXTRACURRICULARS

McMaster Aerial Robotics & Drones Club   Hamilton, ON
Software Team and Web Developer   *Jan 2025 – Present*
- Developing autonomous navigation and drone software.
- Building website and integrating sensor data.

McMaster Robo Sub   Hamilton, ON
Software Team Member   *Jan 2025 – Present*
- Contributing to software for AUV navigation and control.
- Working with ROS and computer vision for object detection.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C, C++, C#, PHP, HTML, CSS, SQL, Swift, MATLAB, Haskell
Frameworks & Libraries: React, Next.js, Tailwind CSS, Flask, Express, Nest.js, Prisma, GraphQL, FXML, Tkinter
Databases: MongoDB, PostgreSQL, Firebase, Supabase, IndexedDB
DevOps & Tools: Git, Docker, AWS, Azure, GitHub, VS Code, Xcode, Eclipse, Netlify
ML/AI: TensorFlow, PyTorch
Other: ROS, Data Analysis, Technical Writing, Research, Collaboration