Shaaf Shahzad

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EDUCATION

Toronto Metropolitan University (formerly Ryerson University) — Toronto, ON
B.Eng in Computer Engineering with Co-Op — *Sep. 2022 – May 2027*
Relevant Coursework *Data Structures and Algorithms, Object Oriented Programming, Software Systems*

EXPERIENCE

Islamic Relief Canada — Sep. 2019 – June 2022
Nationwide Donor Relations Volunteer — *Burlington, ON*
- Optimized mailer process, boosting campaign launch efficiency and donor outreach
- Coordinated nationwide mail distribution, ensuring timely delivery and enhancing donor engagement
- Overhauled data entry protocols, enriching donor database accuracy and marketing precision

Make-A-Wish Foundation Canada — Sep. 2019 – June 2022
Foundation Leader and Chief Coordinator — *Hamilton, ON*
- Raised $4,000 through social media-driven events, exceeding goals by 57% with digital marketing
- Ensured seamless event execution with strategic inventory management, demonstrating key analytical and organizational skills
- Efficiently managed budgets, ensuring cost-effectiveness for over 15 events across Hamilton

PROJECTS

DeepEnd | *TypeScript, Next.js, Firebase* — Dec. 2023 – Mar. 2024
- Implemented a winning solution for the Google Developer Student Clubs (GDSC) McMasterU Solution Challenge Hackathon through a project-based learning platform for aspiring software developers
- Utilized Firebase for secure authentication and data storage, enhancing the learning experience with personalized project suggestions and a responsive chatbot
- Integrated OpenAI API to provide personalized projects and immediate development support for users, thereby enriching the learning process

Project 4.0 | *TypeScript, Next.js, Firebase* — Jan. 2024 – Mar. 2024
- Utilized TypeScript and Next.js to drive a web platform aimed at providing comprehensive support tools for students throughout the semester, such as weekly course summaries, task optimization, and grade calculators
- Integrated Firebase for seamless authentication and data management, enhancing the platform with automated course outline analysis and concise weekly topic summaries through OpenAI API integration
- Developed a productivity-boosting algorithm that seamlessly syncs with Google Calendar for optimized work flows

Streeks | *JavaScript, React Native, Expo, Express, MySQL, Clerk Auth* — July 2023
- Developed a React Native habit tracking app using JavaScript, leveraging Expo for streamlined frontend development and deployment
- Utilized Express and MySQL to establish a robust backend infrastructure, facilitating efficient storage and management of streak data while incorporating unique time-based streak mechanics
- Implemented Clerk Auth for seamless authentication, ensuring user data privacy and allowing users to securely track their habits

Canadian Health Statistics Analysis | *C, Python, TensorFlow, gnuplot* — Mar. 2023 - Apr. 2023
- Analyzed Canadian health statistics data using C to compute statistical averages across categories, focusing on diabetes prevalence from 2015 to 2021
- Utilized Python and TensorFlow to develop a robust prediction model for Canadian diabetes statistics, leveraging machine learning techniques to forecast future trends and patterns based on historical data
- Employed gnuplot to visually represent analysis findings through graphical representations

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C/C++, Java, HTML/CSS, SQL
Frameworks: React, Next.js, React Native, Express, tRPC, Tailwind CSS, FastAPI, Prisma
Developer Tools: Git, Visual Studio, VS Code, NetBeans, Firebase, AWS, Docker, Google Cloud Platform, Azure
Databases: MySQL, MongoDB