

# Shaaf Shahzad

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## EDUCATION

### Toronto Metropolitan University (formerly Ryerson University)

*B.Eng in Computer Engineering with Co-Op*

Toronto, ON

Sep. 2022 – May 2027

## EXPERIENCE

### MetHacks 2023

*Collaborator*

May 2023

Toronto, ON

- Developed user-centric EdTech solutions to enhance the virtual academic experience
- Led the design and development of intuitive digital tools for diverse learning styles
- Pitched and presented our EdTech solution to a panel of judges and educators

### Islamic Relief Canada

*Volunteer*

Sep. 2020 – June 2022

Burlington, ON

- Efficiently sorted and organized mailers for various campaigns, improving workflow
- Successfully handled nationwide campaign mail during Ramadan
- Enhanced data quality through precise data entry for targeted marketing efforts

### Make-A-Wish

*Foundation Leader*

Sep. 2019 – June 2022

Ancaster, ON

- Orchestrated profitable fundraisers, including bake sales and charity events
- Exhibited adept inventory management, ensuring seamless event and fundraiser operations
- Effectively handled cash flows and event budgets for cost-efficient execution

## PROJECTS

### Streeks - A Habit Tracking App | *JavaScript, React Native, Expo*

June 2023 – July 2023

- Built a habit tracking app using React Native and Expo as a framework for testing and development
- Engineered habit tracking functions with customizable intervals and reminders to boost user engagement
- Utilized state management in React Native for optimized habit tracking and data synchronization
- Developed a unified codebase with React Native for seamless operation on both iOS and Android platforms

### Project Inosculation | *React, Node.js, Express.js, MongoDB, JWT*

September 2023 – Present

- Developing a full-stack family tree web platform with Express.js serving a REST API with React as the frontend
- Implemented user registration, advanced tree management, real-time collaboration, and data validation
- Established secure user authentication using JSON Web Tokens for data protection
- Leveraged MongoDB for data storage, ensuring scalability and robustness

### Health Statistics Analysis | *C, gnuplot*

March 2023 – April 2023

- Implemented a C program to efficiently analyze CSV data
- Conducted data processing, including average calculations and trend identification
- Generated in-depth statistical insights for provincial and national datasets
- Created data visualization plots to enhance analysis capabilities

## TECHNICAL SKILLS

**Languages:** Python, C, Java, JavaScript, HTML/CSS, SQL, VHDL, Verilog

**Frameworks:** React, Next.js, React Native, Node.js, Express.js, FastAPI, Tailwind, Expo, JWT

**Developer Tools:** Git, Firebase, AWS, VS Code, Visual Studio, NetBeans, gnuplot

**Databases:** MongoDB, MySQL, Neo4j