



Danyal Yousuf

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Education

McMaster University

Expected April 2027

Bachelor of Engineering in Software Engineering

Hamilton, Ontario

- **Relevant Coursework:** Data Structures and Algorithms (Java), Introduction to Software Development (Java), Objected-Oriented Programming (Java), Software Engineering Practice and Experience (C)

Experience

TD Securities

May 2025 – August 2025

Software Engineering Intern/Co-op

Hybrid

- Built and optimized Python programs to generate training/testing datasets for ML models predicting trade sensitivity scores, reducing computation time from 10-12 hours to a few minutes
- Collaborated on the development, training, and evaluation of ML models across multiple financial risk types
- Engineered Python script to retrieve and reconstruct raw data into standardized formats for seamless model training
- Created Python utility to generate 4,000+ synthetic datasets, boosting the scale and efficiency of ML model training, validation, and testing

Chef Katers

Oct 2024 – Present

Software Engineer

Remote

- Attend weekly meetings to discuss business ideas, marketing strategies, and website layout plans.
- Develop webpage layouts using React.js.
- Implemented 10+ components from the Bootstrap React framework
- Submit tasks for approval on GitHub before publishing to the live domain.

Engineering For Kids Halton

Oct 2023 – Present

Lead Teacher

Milton, Ontario

- Educate young students about the various disciplines of engineering and their real-world applications. Increased number of held classes by 10%, with 4-5 students per class.
- Guide students in developing projects that apply engineering fundamentals while adhering to real-world methodologies, such as the Engineering Design Process.
- Showcase the organization's projects to interested families considering enrolling their children in the provided camps.

Projects

RestNReview | EJS, Express.js, MongoDB, Mongoose, MapTiler, Passport.js, Cloudinary, Render, Bootstrap

- Built a CRUD-based web application to explore, post and manage hotel listings.
- Implemented secure user authentication and authorization.
- Designed dynamic routing for seamless navigation.
- Utilized MongoDB Atlas for scalable and secure cloud-based data storage.
- Managed cloud-based image storage and delivery using Cloudinary.

Streetball Scorekeeper | HTML, Bulma, JavaScript, GitHub Pages

- Built a dynamic front-end application for tracking basketball game scores
- Ensured automatic size responsiveness using the Bulma CSS framework
- Deployed the application via GitHub Pages for easy access and sharing.

Quanser QArm Automation | Python, Quanser, QLABs

- Created a Python program to automate a QArm robot to pick up and transfer sterilizing containers to their designated autoclaves
- Simulated 3D environment using QLABs

Technical Skills

- **Languages:** JavaScript, Lua, C, Java, Python, C++, HTML, CSS, C#, Verilog
- **Technologies:** React.js, Vite, Express.js, Bootstrap, Bulma, Node.js, MongoDB, Mongoose, EJS, Passport.js, Helmet, Cloudinary, Render, Git, GTK, GitHub, Maven, Unity, Quartus