

# FAAZ SHERWANI

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## EDUCATION

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### BSc Hons. in Computer Science (Minor in Electrical Engineering and Power Systems)

Expected – April 2027

York University (GPA: 3.8/4)

Coursework: Design and Analysis of Algorithms, Software Testing, Database Systems, AI Programming

## EXPERIENCE

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### Electrical Engineer Intern, OP and Telecom – Hydro One

Sept 2025 – Aug 2025

- Executed the initial diagnostic triage for system-impacting outages, assessing transmission and distribution data to prioritize response based on system redundancy and critical asset status.
- Performed **detailed circuit analysis of faulted assets**, verifying component behavior against specifications for high-voltage equipment, including transformers and circuit breakers, to determine root cause.
- Managed the real-time data integrity within the Outage Management System (OMS), directly working with **IESO and OPG** regarding service restoration timelines.
- Developed and deployed **PowerBI dataflows** solution to automate the aggregation of outage metrics, enabling Network Management Engineers to more rapidly track historical performance trends.

### Software Team Member - York University Robotics Society

Dec 2024 – Present

- Collaborated with a team to develop and maintain ROS2 [Robot Operating System] nodes for rover field operations utilizing GPS data for real-time distance and heading calculations for rover navigation.
- Contributed to the development of autonomous rover software, utilizing **sensor data and path-planning algorithms** to enhance performance.
- Selected **as one of the few students from my batch** to join the Robotics Society's main software team, reflecting a competitive selection process.

## PROJECTS

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### CodeScribe - Hack the 6ix 2025 (Vellum AI, Gemini, Supabase, Linear & GitHub APIs, Warp CLI, Node.js)

- Built an AI-assisted workflow that turns a Linear task into a unified code diff, cutting out setup and boilerplate completely.
- Made a **Vellum workflow pipeline** to parse tickets, pull repo context, draft initial code using Gemini. A local CLI then triggers **auto PR creation** and Linear ticket updates with one command.
- Saves time at the start and the end by giving a draft patch instead of a blank file, and by automatically creating the PR, updating the ticket status, and adding the change description.
- Positioned Codescribe against Copilot's inline suggestions by emphasizing **more fine-grained control** with an explicit human in the loop review before merge.

### Raaz Tutoring (React, AWS S3, SES, Lambda)

- Built and deployed my own **math-tutoring business website** from scratch using React (functional components, hooks, React Router). AWS S3 is used solely for hosting larger assets (e.g., PDF cheat sheets, testimonial images).
- Implemented a serverless contact-form workflow using **AWS API Gateway → Lambda (Node.js) → AWS SES**. Incoming form data is validated and sanitized in Lambda before sending templated HTML emails to both myself and prospective students—ensuring leads are captured instantly without manual intervention.
- Since launch, I have **acquired 17 students** and have incurred very little cost for the AWS services used.
- Kept total AWS costs under **\$5/month** by leveraging SES sandbox (requesting lifting when needed) and minimizing Lambda invocations; tracking CloudWatch logs to pinpoint and fix CORS and email-sending issues early on.

### YU Snaps (React, Google Firebase)

- A web app designed for the York University community to capture and share campus moments.
- Integrated Firebase as backend for **user authentication, real-time database storage**, and hosting, ensuring seamless user experience and data management. Designed React components for front end.
- Improved the **Lighthouse score by 15%** through the conversion of image formats from PNG to WebP and preloading critical image and CSS resources which enhanced load times and user experience.
- Over **30** current active users

### **Publication – Cloud Debugging & Serverless Troubleshooting**

- Published a blog exploring systematic debugging of a complex AWS Lambda and SES integration error, involving in-depth analysis of CloudWatch logs and IAM policies

### **SKILLS**

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**Tools/Frameworks:** React, Google Firebase, Docker, Kubernetes, Jira, MongoDB, Postman, Vellum

**Certification:** AWS Certified Cloud Practitioner