Fayaz Rafin

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Education

Lassonde School of Engineering, York University Sept 2021 – Apr 2026
Bachelor of Engineering in Electrical Engineering *North York, ON*
Relevant Coursework: Software Engineering Principles, Full-Stack Development, AI/ML Fundamentals

Experience

Prompt Engineer & AI Trainer May 2024 – Aug 2024
Outlier *Remote*
- **Optimized** AI-generated responses by **fine-tuning prompts**, increasing accuracy by **18%** and reducing error rate in math equation solving.
- Utilized **Python** with **Pandas** and **Matplotlib** to analyze AI-generated data, supporting informed decision-making.
- Built dynamic **Power-BI** dashboards, **visualizing** AI performance trends to **improve** stakeholder decision-making.

Software Engineer Intern May 2023 – Aug 2023
Radar *Toronto, ON*
- **Automated** user management using **Flutter** & **AWS (S3, Cognito, Localstack)**, reducing manual database operations by **30%** and **improving** backend efficiency.
- **Revamped** UI/UX by fixing critical bugs and **improving** navigation, leading to a **20%** boost in **user engagement**.
- **Introduced** a user profile sub-category for outdoor hobbies in the matchmaking platform, **enhancing** accuracy by **25%** and **enriching** user interactions, leading to improved **user satisfaction** and **engagement**.
- Developed and optimized queries using **Go** and **PostgreSQL** for retrieving and updating user friendship data, **reducing** query execution time from **250ms** to **150ms** (**40%** improvement), significantly **enhancing** the application's **response time** and **efficiency**.

Projects

CTRL+HACK+DEL - Hackathon Website | *TypeScript, Next.js, Tailwind CSS, MySQL, Grafana, AWS*
- **Led** the development of the CTRL+HACK+DEL website, coordinating a team of **9 developers** to ensure efficient project milestones and feature rollouts for a **seamless user experience**.
- **Built** a scalable frontend using **React** and **Next.js**, ensuring smooth navigation for **400+ hackathon participants**.
- Utilized **MySQL** and **AWS (RDS, S3, and Lambda)** for database management and implemented **Drizzle** ORM to efficiently handle hacker registrations and their information, streamlining data organization and retrieval.
- Integrated **Grafana** to monitor website performance and user engagement, tracking key metrics such as **signups, page visits**, and **user interactions**, helping optimize the platform for **300+** registered hackathon participants.

Veri-Thread - Sustainable Supply Chain Tracker | *Figma, NextJS, Typescript, Node.js, Tailwind*
- Led development of a **transparency-first, blockchain-powered platform** focused on ethical commerce in the fashion industry, improving supply chain visibility by **50%** and reducing greenwashing risk.
- Collaborated across design and engineering to build a decentralized full-stack solution using **Next.js, TypeScript**, and **Express.js**, creating seamless data tracking and user experiences.
- **Deployed** decentralized safety contracts to track supply chains on the **blockchain**, **reducing supply chain errors** by **30%** and improving **transparency** by **50%**, minimizing the risk of **greenwashing**.

Extracurricular and Leadership

President Sept 2022 – Apr 2025
The Computing Students Hub (CSHub)
- Led a team of **64** executives and organized **York University's first inclusive hackathon**, scaling technical community engagement and empowering **2000+** members through beginner-friendly **workshops** and career-driven events. .
- **Improved** operational efficiency using **Notion** and **Jira**, accelerating internal workflows by **25%** and **enhancing** executive collaboration.
- **Hosted** industry-led sessions with professionals from **Notion, Microsoft** and **Google** on **ML, Web Dev, and APIs**, boosting workshop engagement by **40%**. .

Technical Skills

Programming Languages: Python, Java, JavaScript, Go, Rust, C, Typescript, Flutter, SQL.
Libraries & Frameworks: Next.js, React, Flask, Express.js, Docker, Tailwind CSS
Cloud & DevOps: AWS (RDS, S3, Cognito, Lambda, Localstack), Firebase, Microsoft Azure, Google Cloud
Tools & Databases: PostgreSQL, MySQL, MongoDB, Grafana, Redis, Power-BI