Taha Mian

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⚙ Skills

Programming Languages:	Python, JavaScript/Typescript, Golang, C/C++, Java, Bash, SQL
Middleware/Frameworks:	Docker, Node.js, GraphQL, React, Vue.js, Terraform, Flask, Ansible

💼 Work Experience

Software Engineer, *Mainspring Energy* ⟶ Oct 2023 – Present

- Extended fleet-wide telemetry type system and implemented data integrity checks to ensure consistency across all generators.
- Implemented fault tolerance in the telemetry system using C++ to handle power cycle-induced disk corruption, reducing support tickets and ensuring reliable data transmission.
- Built full-stack fleet management application on GCP with a React frontend and GraphQL API, enabling real-time monitoring and control of generators via MQTT pub/sub protocol.
- Designed and implemented a role-based access control (RBAC) system using OpenFGA, providing centralized authorization across all company cloud applications.

Software Engineer III, *Lever* ⟶ March 2022 – Oct 2023

- Spearheaded a flexible compliance framework enabling customers to configure field-level data rules per region, allowing self-service GDPR, CCPA, and other regional data regulation compliance without engineering intervention.
- Overhauled posting integrations on platforms such as LinkedIn, Indeed, and Lever's internal portals and APIs, enhancing accessibility and efficiency in recruitment processes.
- Implemented automation solutions for customizing candidate pipelines, significantly reducing dependency on support services and slashing pipeline customization tickets by an 95%

Software Engineer, *Evertz Microsystems* ⟶ May 2019 – February 2022

- Contributed to the development of Evertz's first SaaS offering, Evertz.io, focusing on content and metadata service and serverless APIs using AWS Lambda.
- Designed and developed a full stack application that streamlines the deployment of Evertz products to various cloud platforms (including VMware and AWS) by automating the provisioning and orchestration of virtual machines.
- Significantly reduced deployment time from 6 months to 2 weeks, and eliminated human error through the automation of manual steps.
- Built React frontend with GraphQL API and Flask backend; used Terraform, cloud-init, and Ansible for provisioning and orchestration.

Software Engineer (CO-OP), *Loblaws Companies Limited* ⟶ May 2017– April 2018

- Developed a data visualization dashboard using D3.js and Vue.js for the frontend, and an express backend, to model file-based batch processes at PC Bank.
- Improved the efficiency of the production support team by creating a database-driven application that automated the documentation and reporting of production issues.

👥 Personal Projects

Auto Grader `PYTHON` `GO` ⟶ Jul 2019 – Mar 2020

- Led a team of three in the development of a full stack application for grading python assignments, successfully implemented for over 140 first year students at McMaster's Engineering Department.
- Ensured the isolation of student code through the use of docker containers and provided students with feedback on submissions in a timely manner.

🎓 Education

McMaster University, *Software Engineering (CO-OP)*, BEng ⟶ Sep 2014 – May 2019