

Tanzim Mokammel

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Experienced senior software engineer with a proven track record in full stack development and a strong focus on problem solving and software design. Proficient in technologies such as [Typescript](#), [Go](#), [Python](#), [NodeJS](#), and [React](#), with a background in leading and mentoring development teams. Recognized for contributions in optimizing systems and driving innovative solutions.

Interests include technology, music, travel, [photography](#), fitness, video games.

Technologies

[Typescript](#) [Go](#) [Python](#) | [NodeJS](#) [React](#) [NextJS](#) | [SQL](#) [NoSQL](#) [Kafka](#) | [Git](#) [Docker](#) [Kubernetes](#) [AWS](#)

Key Skills

Problem solving, software design, mentorship, leadership and communication

Work Experience

Member of Technical Staff, [Cohere](#) | Toronto, Canada, Mar 2024 - Present

- Cohere empowers developers and enterprise with large language models (LLM)
- I am developing an application to enable enterprise customers to leverage retrieval augmented generation (RAG) on their data sources, including email, messaging, and distributed drives
- Key challenges include creating scalable backends for data ingestion, indexing, and retrieval, and integrating them seamlessly with a modern UI for chat, data management, and search functionalities
- I am also developing essential features for Cohere's self-serve platform, including billing, playground, and onboarding processes
- My primary focus is on the backend, utilizing [Go](#), [Python](#), [Postgres](#), [Redis](#), [Kubernetes](#), [GCP](#), and [AWS](#)
- For versatility and maintaining frontend competence, I am also developing full-stack features using [NextJS](#) and [Typescript](#)
- As a mentor, I provide guidance on best practices for system design, software design, testing, and documentation

Senior Software Engineer, [Flipp](#) | Toronto, Canada, Jan 2021 - Mar 2024

- Flipp helps North American shoppers save money by aggregating deals and flyers
- I am working on a greenfield web application enabling Flipp's retail partners design digital flyers, leading the charge in migrating off print flyers towards a digital solution
- Key challenges include establishing best practices for building a modern web UI with drag and drop interactions, alongside developing backend APIs and microservices. Frontend technologies include [React](#), [Typescript](#) and [Storybook](#), while [Go](#), [NodeJS](#), [Ruby](#), [Kafka](#), [AWS](#), [Github Actions](#) and [Kubernetes](#) are critical on the backend.

- Mentoring peers on concepts such as functional reactive programming, atomic design, concurrency, and testing
- Continuously analyzing and improving existing systems: reduced endpoint latency by 35x through concurrent **Go** code optimization, simplified system architecture by consolidating scattered code across services and languages into a sub-500 LOC **Typescript** package
- On a similar spirit, I have led multiple award-winning hackathon and R&D initiatives. One project enabled automated flyer curation within a full stack **NextJS** app, integrating with OpenAI's **GPT-3.5** large language model (**LLM**). A follow up project enabled semantic search of private product data using retrieval augmented generation (**RAG**): leveraging a locally hosted vector database (**ChromaDB**), and an open source LLM (**mistral:7b**)

Mentor, [CareerFoundry](#) | Remote, Feb 2022 - May 2023

- Mentored aspiring web developers in soft skills and industry processes, offering comprehensive guidance, feedback, and support in a MERN stack curriculum

Full Stack Engineer, [Moonfare](#) | Berlin, Germany, Jan 2020 - Jan 2021

- Moonfare makes investing in private equity easy, currently managing over €2.5 billion in assets
- I played a key role in developing new features and scaling the core web application to support business growth while refactoring to enhance performance and reduce technical debt; in one case endpoint latency was improved 89% through database and algorithm optimizations
- Mentored developers through code reviews and educational sessions

Full Stack Engineer, [Diginex](#) | Berlin, Germany, Dec 2018 - Dec 2019

- At Diginex, a blockchain technology company, I developed a cryptocurrency trading platform for algorithmic and manual trading, and worked on internal tools for backtesting arbitrage models, load testing, and supporting financial data transfer protocols. I utilized **Python**, **Pandas**, **Postgres**, and **AWS** in the backend, and **React** with **RxJS** on the frontend.

Contract Backend Engineer, [ReloTalent](#) | Hanoi, Vietnam, Mar 2018 - May 2018

- Developed a microservice to implement an iterative mathematical model for determining salaries during relocation considering tax rates, cost of living, and personal investments using **Python**, **SQL**, and **AWS Lambda**

Sr. Product Development Engineer, [Advanced Micro Devices](#) | Toronto, Canada, Jun 2012 - Nov 2017

- Led the development of system-level test programs and yield analysis with a global team for AMD Radeon products, receiving two Spotlight awards for contributing to over \$US 900,000 in company savings

Education

- Master of Engineering, Electrical Engineering | University of Toronto, Canada, June 2015
- Bachelor of Applied Science with Honors, Electrical Engineering | University of Toronto, Canada, June 2012