

# 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, NodeJS, React, and Go, with a background in leading and mentoring development teams. Recognized for contributions in optimizing systems and driving innovative solutions.

## Contact

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## Technologies

Typescript React NextJS Storybook | NodeJS Go Ruby | SQL MongoDB Kafka | Git Docker  
Kubernetes AWS GitHub Actions

## Key Skills

Problem solving, software design, mentorship, leadership and communication

## Work Experience

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

- 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, and led award-winning hackathon initiatives such as automating flyer curation with GPT-3.5 integration

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

- Mentoring 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
- Developed new features for Moonfare's core web application and taking on the technical challenges to scale the business for a growing client base

- Challenges include designing database models, microservices, and user interfaces in addition to refactoring pre-existing software to improve performance and reduce tech debt
- In one case, I improved endpoint latency by 89% by optimizing asynchronous functions, database queries, and search algorithms
- Mentored fellow developers in algorithms, software design and database management through code reviews, documentation, and educational sessions
- Developed using a **Typescript** based tech stack with **NodeJS**, **React**, and **MySQL**

### Full Stack Engineer, **Diginex** | Berlin, Germany, Dec 2018 - Dec 2019

- Diginex pioneers blockchain based tools for governments and corporations, working with institutions such as the UN and Microsoft
- I helped develop a cryptocurrency trading platform that aggregates price data and allows algorithmic and manual trading across exchanges
- I worked on internal tools for backtesting arbitrage models using the Bellman-Ford algorithm, load testing, and supporting financial data transfer protocols
- Our tech stack and design principles focused on supporting data streams, analytics, and visualization: **Python**, **Pandas**, **Postgres**, and **Redis** on the backend, **React** with **RxJS** on the frontend, and **AWS** for encryption and user authentication

### 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

## Interests

Technology, music, travel, **photography**, fitness, video games