

# Tanzim Mokammel

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## Contact

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## Technologies

Typescript NodeJS Go React SQL MongoDB AWS Git Docker Kubernetes

## Key Skills

Problem solving, software design, mentorship, leadership and communication

## Interests

Technology, music, travel, fitness, video games

## 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
- Critically analyzing existing systems to improve efficiency and developer experience. A few award winning hackathon efforts include:
  - Automating flyer curation by prompting [GPT-3.5](#), while also providing user intervention with a full stack [NextJS](#) app
  - Reduced endpoint latency by 35x through the use of worker pools to fix concurrent [Go](#) code
  - Simplifying the system architecture by reverse engineering 10K+ LOC scattered across services in [Typescript](#), [Ruby](#) and [Go](#) to a single sub 500 LOC [Typescript](#) package
  - Architecture simplification and concurrency fixes were promptly taken to production. Curation automation is currently serving as a pioneering example.

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

- Mentoring the next generation of web developers on soft skills and processes to penetrate and achieve success within the software industry
- Providing technical guidance, assignment feedback, code review, and debug support around a curriculum focusing on the [MERN](#) Stack

## 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 a team of engineers across North America and Asia in developing system level test programs and yield management for AMD Radeon Products: Radeon HD7990, Radeon R9 285, R9 Fury/Fury X/Nano, and the RX Vega 64 Series
- Received two Spotlight awards for contributing to over \$US 900,000 in company savings each

## Education

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