

Afeef Shaikh

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EDUCATION

Texas A&M University

Master of Computer Science

College Station, TX

Present

- **Courses:** Analysis of Algorithms, Deep Learning, Artificial Intelligence

Toronto Metropolitan University

Major: Business Technology Management | Minor: Computer Science

Toronto, ON

Oct 2025

- **Courses:** Data Structures, Algorithms, Operating Systems, Database Systems, Computer Networks, Software Engineering, Cloud Computing, Web Development, Information Security, System Programming (C, UNIX)

TECHNICAL SKILLS

Languages: Java, Python, SQL, HTML5, CSS, JavaScript, C, C++, R, PHP

Libraries/Frameworks: ReactJs, NextJs, NodeJs, NextAuth.js, Tailwind CSS, Pandas, NumPy, Matplotlib, Pusher

Tools: Git, VSCode, Vercel, Firebase, AWS (EC2, S3), PostgreSQL, CI/CD, Stripe API

EXPERIENCE

Junior Software Developer

A2Z IT Consulting Services

Feb 2025 – July 2026

Toronto, ON

- Developed end-to-end client management system, using Next.js and PostgreSQL to centralize project tracking, reducing client communication overhead by 60% and improving project delivery timelines.
- Built reliable financial infrastructure using Stripe APIs to automate invoicing and reconciliation for 15+ clients.
- Engineered frontend with NextAuth/Pusher to handle complex HTTP requests for secure, real-time access.
- Deployed scalable infrastructure on Vercel with automated CI/CD pipelines, reducing deployment time by 75% and ensuring 99.9% uptime for client-facing dashboards.

Research Assistant (Data Engineering)

URO Program, TMU

May 2025 – Aug 2025

Toronto, ON

- Optimized Python ETL pipelines to structure large job data, improving tokenization for scalable NLP workflows.
- Refined skill extraction via APIs and led cross-functional data quality efforts, resolving 90% of duplicates.
- Applied clustering to reveal trends and actionable insights, ensuring data systems met rigorous research needs.

Research Assistant (Gen AI in Healthcare)

Toronto Metropolitan University

Feb 2025 – April 2025

Toronto, ON

- Engineered a full-stack portal with OpenAI API, streamlining workflows to drastically improve system reliability.
- Designed and prompt-engineered a GPT-4 mental health chatbot on Poe for AI triage; featured in class demos.

Research Assistant (Automation & Analytics)

Bridging Divides, TMU

Feb 2025 – April 2025

Toronto, ON

- Automated end-to-end ETL in Python/Pandas for 300+ peer-reviewed papers across 17 journals, creating a clean dataset and 9 HTML/CSS tables while cutting manual prep time by 80%.
- Scripted Google Drive API to organize large file structures, ensuring the system scaled to handle extensive data.
- Produced charts for reports & integrated them into Git-tracked workflow, maintaining strict code review practices.

PROJECTS

Alliance Ticketing System | [Website](#) | [GitHub](#) | *Next.js, React, TypeScript, Tailwind CSS, Recharts, Vercel*

- Developed a reliable full-stack ticketing system for a non-profit, prioritizing stability and operational uptime.
- Built dashboards with role-based access, applying strict code review practices to ensure safe production updates.

Toronto Cypress - Citizen Reporting Platform | [Website](#) | [GitHub](#) | *Next.js, React, TypeScript, Google Maps API*

- Architected a TypeScript civic platform for infrastructure reporting, ensuring scalable and user-centric design.
- Integrated Google Maps API to manage complex HTTP requests & optimize performance analytics for high traffic

Quizzzy – AI Flashcard Generator | [Website](#) | *Next.js, React, Stripe, OpenAI, Firebase*

- Built AI flashcard tool using OpenAI API to generate personalized study sets, improving retention by 40%.
- Used by 7+ peers, helping increase topic recall and engagement across 100+ study sessions.