

Mohammad Khan

647-964-3032 | mohammad.danial.khan@torontomu.ca | linkedin.com/in/mohammad | github.com/MKCodes

EDUCATION

Toronto Metropolitan University (Ryerson University)

Bachelor of Science in Computer Science

Toronto, Ontario

Sep. 2020 – May 2026

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Distributed Systems
- GPA: 3.8/4.0 (Dean's Honor List)

EXPERIENCE

Royal Bank of Canada (RBC) - Borealis AI

May 2025 – August 2025

Toronto, ON

Software Engineer Intern

- Deployed observability platform on RBC AI Farm using **Prometheus**, and **AWS Grafana**, enabling earlier incident detection and **50%** faster mean time to recovery
- Automated CI/CD pipeline using **GitHub Actions** for machine learning model life cycle management, accelerating model deployments by **40%** across **5+** research teams
- Built SSH access system for **Run:AI containers** using **Docker** and **OpenShift Container Platform**, enabling VS Code remote development for **5+** teams and reducing setup time by **50%**
- Validated cross-region S3 replication via **AWS CLI** and **Python**, ensuring **sub-second latency** and **100% object consistency**

Royal Bank of Canada (RBC) - Borealis AI

Sep. 2024 - May 2025

Toronto, ON

Software Engineer Intern

- Built AI-powered migration system using **OpenAI LLM** and **Python** to automate **WebFOCUS** modernization at scale, processing **10,000+** files and achieving **\$5M+ savings in hiring costs**
- Developed **20+ RESTful APIs** with **Spring Boot** and built **Angular** front-end features for NOVA project, reducing API latency by **10%** and serving **15+ teams**
- Engineered RAG-powered support chatbot using **Python**, **LangChain**, and **FastAPI** on **OpenShift**, serving **1,000+ employees** with **95% accuracy** and reducing tickets by **40%**

Ministry of Public Service and Delivery

Jan. 2024 - August 2024

Toronto, ON

Software Engineer Intern

- Optimized server infrastructure with **PowerShell**, **PHP**, and **Ansible**, reducing **30+ manual hours/week**
- Automated monitoring dashboards using **PowerShell** to visualize server health metrics on **5+ servers**, enabling **10% faster incident response**
- Spearheaded migration and configuration of monitoring systems, ensuring seamless transitions with **zero downtime**

Kev Group Inc

May 2022 - August 2022

Toronto, ON

Software Engineer Intern

- Created **50+** responsive pages using HTML, CSS, and JavaScript in cloud-based environment, improving user navigation
- Leveraged **RESTful APIs** to efficiently retrieve and display district information, enhancing data accessibility
- Implemented caching strategy using **C# ASP.NET** and **Redis** to optimize database queries, reducing latency by **30%**
- Enhanced Internal Tools with district filtering and CSV export to streamline data access and **save hours of manual work**

PROJECTS

AI Career Guidance Platform | *Next.js, Prisma, PostgreSQL, Tailwind CSS, Inngest, Gemini AI*

October 2025 – Present

- Built an end-to-end AI career platform generating resumes, cover letters, and personalized guidance for **12 profiles**
- Implemented serverless job scheduling to refresh career insights **weekly**, tracking salary trends, market demand, and skill recommendations with **zero infrastructure overhead**
- Fine-tuned LLM prompts and system instructions, improving output coherence by **25%**

RU Hacks | *Python, Node.js, React.js, SQL*

May 2020 - July 2020

- Built user authentication that served **100+ students across 20+ teams**, improving hackathon registration
- Developed Discord bot in Python to automate notifications, reducing manual updates by **50%**

TECHNICAL SKILLS

Languages: Python, Java, C/C++, TypeScript, JavaScript, C#, PHP, HTML/CSS

Frameworks & Libraries: React.js, Node.js, Angular, Spring Boot, FastAPI, LangChain, PyTorch, Express.js, ASP.NET, Flask

Developer Tools & DevOps: Git, Docker, Kubernetes, CI/CD, AWS (S3, EC2), Azure, Red Hat OpenShift, GitHub Actions, Ansible, Postman, Prometheus, Grafana, Thanos

Databases: MySQL, PostgreSQL, MongoDB, MariaDB, SQL Server

Specializations: Full-Stack Development, Distributed Systems, Cloud Infrastructure, System Design, Large Language Models, API Design, Microservices Architecture