

Umair Arham

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EDUCATION

University of Toronto

Bachelor of Science in Computer Science | Artificial Intelligence and Systems Focus

Toronto, ON

Expected May 2027

EXPERIENCE

Software Engineer

September 2025 – December 2025

Department of CS, University of Toronto | Typescript, Node.js, Express.js, PostgreSQL

Toronto, ON

- Deployed production grade app supporting **200+** users using **Docker containerization** and automated CI/CD
- Reduced API latency by **20%** by using **Express.js and Node.js** to architect **over 10 RESTful** route modules
- Accelerated **SQL** query performance by **15%** by designing robust relations and joins on DBs with **300+ users**
- Cut access control violations by **25%** by implementing a **RBAC** system using **Clerk** supporting 5+ distinct roles

ML Engineer Intern

May 2025 – August 2025

UrbanFood Alliance | Python, LlamaIndex, Azure, Docker, React

Franklin Township, NJ

- Delivered personalized AI evaluations to **30+ users** by developing an AI agent using the **MCP framework**
- Cut deployment time by **15%** by containerizing app with **Docker** and deploying to Azure, serving **100+** users
- Reduced page load latency by **20%** by building modular **React** components with optimized API integration
- Increased model accuracy by **27%** through supervised fine-tuning and iterative feedback-driven model iteration
- Integrated **10+** internal docs using a **RAG** pipeline with **LlamaIndex**, ensuring contextual, grounded responses

Software Engineer Intern

January 2025 – April 2025

Uruk GC | Python, Django, PostgreSQL

Toronto, ON

- Saved admin team **7+** hours weekly by building scalable notification system with Twilio for automated task alerts
- Streamlined **500+** daily operations by designing **PostgreSQL** schema via Supabase for managing workflows
- Reduced query latency by **35%** by implementing **Django** backend with Redis caching and optimized queries
- Secured access for **100+ users** by implementing **RBAC** using django-auth for permission management

PROJECTS

Motivez – Social Discovery App | Python, FastAPI, PostgreSQL, Redis

- Engineered FastAPI backend serving **10K+ place suggestions** across real-time location metrics
- Reduced API costs by **70%** by implementing **geohash-based Redis caching** for frequently accessed data points
- Cut API error frequency by **27%** by enforcing **user level rate limiting** on high volume endpoints
- Decreased response times **from 2s to 200ms** by caching place details and serving images through streaming proxy

Envisible – Secret Management Platform | Python, Go, FastAPI, PostgreSQL, React, TypeScript

- Secured secrets for **7+** developers by building a secrets platform with SOPS encryption, team-based access control
- Achieved **sub-2s** secret sync by implementing **Go CLI** with intuitive commands for encrypted secret management
- Protected **50+ secrets** with role-based permissions by designing RBAC using Age encryption and **PostgreSQL**

Tabi - Agentic AI Extension | [Live Demo](#) | Python, Langchain, Gemini, FastAPI, Chrome API

- Achieved **60+ active users** and 100+ daily interactions by publishing **AI extension** to the Chrome Web Store
- Built **real-time** tab categorization with **<1s latency** by connecting extension to ML model via FastAPI backend
- Achieved **90% classification accuracy** across **10+** categories by **fine tuning** an ML model with sci-kit learn
- Decreased classification errors by **35%** by enforcing schema-constrained outputs with **Pydantic and Gemini**

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL, HTML, CSS

Frameworks: FastAPI, Django, Flask, Express.js, React, LangChain

Developer Tools: Docker, GitHub Actions, Azure, SOPS, Twilio, JWT, CI/CD pipelines

Databases & Cloud: PostgreSQL, MongoDB, Supabase (Postgres), Redis, Azure Cloud

Concepts: RESTful APIs, Caching, Rate limiting, RBAC, Containerization, Agile methods