

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 used by **200+** users using **Docker containerization** and automated CI/CD
- Enforced relational integrity across **15** interconnected entities using **PostgreSQL** foreign keys and join tables
- Implemented **unit tests** for **20+** backend services using seeded **test databases** to validate auth and error flows
- Ensured production code quality via **automated tests** and lint checks using a **GitHub Actions** CI pipeline

ML Engineer Intern

May 2025 – August 2025

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

Franklin Township, NJ

- Delivered personalized AI-driven evaluations to **30+ users** by developing an **MCP-powered** AI agent
- Enabled scalable serving for **100+** users by containerizing the application with **Docker** and deploying to Azure
- Integrated **50+** internal docs using a **RAG** pipeline with **LlamaIndex**, ensuring contextual, grounded responses
- Shipped AI features on weekly **sprint cycles** by collaborating with **10+** developers in an **Agile** environment
- Improved frontend performance by optimizing API request **batching** and component rendering in **React**

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

Envisible – Secret Management Platform | Python, Go, Google Cloud Run, PostgreSQL, Redis, TypeScript

- Developed secrets management platform used by **10+ teams** to securely store and access production credentials
- Cut secret retrieval latency to **<2s** by developing a **Go-based CLI** and Python/Node SDKs for on-demand access
- Reduced repeated **interactive logins** by implementing long-lived **JWT-based** device authentication
- Deployed stateless **REST API** on **Google Cloud Run** backed by **PostgreSQL** for multi-tenant secret access

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

- Provided on-demand, **real-time** place suggestions using geospatial filtering and **Redis-backed** caching
- Decreased response times **from 2s to 200ms** by caching place details and serving images through streaming proxy
- Eliminated redundant **API calls** by developing geohash-based **Redis caching** for frequently accessed data points
- Improved endpoint **stability** under **high request volume** by implementing user-level **rate limiting**

Tabi - Agentic AI Extension | 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, C, HTML, CSS

Developer Tools: Git, GitHub Actions, Docker, Docker Compose, Linux, Bash, CI/CD, Version Control

Frameworks: FastAPI, Django, Express.js, Node.js, React, Vue

Cloud & Databases: Google Cloud Platform (Cloud Run), PostgreSQL, MySQL, MongoDB, Redis, Prisma ORM

APIs & Testing: REST APIs, JWT, OAuth 2.0, Pytest, JUnit, Unit Testing, Integration Testing, API Design

AI & ML: LangChain, RAG, OpenAI API, Gemini, Claude Code, Codex, Scikit-learn, Pandas, MLOps

Concepts: Distributed Systems, Data Structures, Algorithms, Caching, Rate Limiting, Object-Oriented Programming