

Umair Arham

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Education

University of Toronto

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

Expected May 2027

Toronto, Ontario

Technical Skills

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

Frameworks: FastAPI, Django, LangChain, React, Node.js, Express.js, Vue, Scikit-learn, Pandas, JUnit, RAG

Tools: Git, Docker, Neo4j, Postman, JWT, OAuth2, VS Code, PostgreSQL, MongoDB

Concepts: REST APIs, DevOps, CI/CD, Unit Testing, Object-Oriented Design, Data Structures and Algorithms, Agile

Extracurriculars: UofT Machine Intelligence Student Team — Developer

Hackathons: GenAI Genesis – AI Live Sign Language Detector

Experience

UrbanFood Alliance

May 2025 - August 2025

ML Engineer Intern

Franklin Township, NJ

- Led development of an internal AI agent using the **MCP** framework, serving **10+** teams across the organization
- Boosted response quality by **27%** through supervised fine-tuning and iterative feedback-driven model iteration
- Engineered a **RAG** pipeline using **llama.index** to vectorize internal data, improving LLM response relevance by **25%**
- Enabled real-time business insights by integrating **12+ APIs** and web scraping pipelines across core functions
- Collaborated with **10+** teams in an **Agile** environment, using **CI/CD** pipelines to ship updates **40%** faster

Uruk GC

January 2025 - April 2025

Software Engineer Intern

Toronto, ON

- Automated task assignment and alerting workflows using the **Twilio API**, improving coordination across **50+ teams**
- Reduced query latency by **35%** by designing a **Django** backend with strategic caching and query restructuring
- Optimized **10K+** daily operations using a **PostgreSQL** schema, enabling efficient scheduling workflows
- Implemented **session-based** auth with custom user roles, streamlining access control and onboarding for **100+** users

Projects

PromptLink | [Live Demo](#) | Python, LangChain, FastAPI, React, Neo4j

- Engineered **LangChain** router ranking prompts by intent and history, auto-dispatching to optimal **LLM** chains
- Raised LLM accuracy by **35%** by integrating **FastAPI** scoring pipeline with CoT checks and feedback loops
- Reduced query latency by **28%** using asynchronous request handling and **context-aware** caching

CodeFill | [Live Demo](#) | TypeScript, Express.js, Node.js, Vue, OAuth2

- Developed a **Chrome extension** to extract OTP codes from Gmail in one-click, cutting verification time by **50%**
- Architected a secure **Express.js** backend with **OAuth2**, enabling real-time data retrieval from the **Gmail API**
- Reached **50+** downloads with strong feedback by launching the extension on the **Chrome Web Store**

NxtMovie | [Live Demo](#) | Python, Scikit-learn, Pandas, MongoDB

- Designed a recommender system using **graph similarity** and **scikit-learn** to generate tailored movie suggestions
- Deployed a **MongoDB** database to manage **10K+** movies and user profiles, enabling efficient data access for queries
- Curated structured datasets by scraping **500+** sources with Beautiful Soup, **Pandas**, streamlining analysis workflows