Umair Arham

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EDUCATION

University of Toronto

Toronto, ON

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

Expected May 2027

EXPERIENCE

ML Engineer Intern

May 2025 – August 2025

Franklin Township, NJ

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

- $\bullet \ \ \text{Led development of an AI agent using the } \mathbf{MCP} \ \text{framework, providing personalized evaluations to } \mathbf{30+} \ \mathbf{users}$
- Dockerized and deployed backend to Azure cloud, enabling integration into a live app serving 100+ users
- Built modular React components to integrate with backend APIs, enhancing UX by cutting load times by 20%
- Boosted response quality by 27% through supervised fine-tuning and iterative feedback-driven model iteration
- Collaborated with 10+ developers in an Agile environment, using CI/CD pipelines to ship updates 40% faster

Software Engineer Intern

January 2025 – April 2025

 $Uruk\ GC\ |\ Python,\ Django,\ PostgreSQL$

Toronto, ON

- Modelled a scalable notification system using the **Twilio API** to automate task alerts, saving **7+ hours** weekly
- Optimized 500+ daily operations using a PostgreSQL schema via Supabase, streamlining scheduling workflows
- \bullet Reduced query latency by 35% by designing a **Django** backend with strategic caching and query restructuring
- Implemented RBAC using django-auth, securing permissions, simplifying account management for 100+ users

Software Developer

September 2025 – December 2025

Department of CS, University of Toronto | Typescript, PostgreSQL, Clerk

Toronto, ON

- Developed a full-stack app with 7+ developers, simplifying collaboration between academic and external teams
- Delivered efficient user management via Clerk auth and PostgreSQL, ensuring secure access for 100+ users
- Enhanced backend scalability using TypeScript APIs with Bun/Elysia, improving data handling, access control
- Maintained scalable code through SOLID and CI/CD pipelines, cutting developer onboarding time by 40%

Projects

Tabi - Agentic AI Extension | Live Demo | Python, Langchain, Gemini, FastAPI, Chrome API

- Developed an AI Chrome extension that executes natural-language commands, boosting workflow speed by 40%
- Architected a LangChain agent with Gemini, Pydantic to convert prompts into 10+ structured browser actions
- Integrated FastAPI pipeline connecting Chrome APIs to the backend, cutting latency to <3s via async handling
- Reduced irrelevant classifications by 35% through confidence threshold tuning and fallback logic for edge-cases

CodeFill - Full-Stack Webapp | GitHub | TypeScript, Vue, Node.js, MongoDB, Express.js, OAuth2

- Designed a full-stack app to extract Gmail OTP codes in one-click, supporting verification for 50+ daily users
- Constructed a secure REST API using Express.js and MongoDB, enabling real-time data retrieval within <2s
- Refactored frontend into a modular Vue interface with session management, reducing UI loading times by 20%

NxtMovie - Recommender System | <u>Live Demo</u> | Python, Scikit-learn, Pandas, MongoDB

- Engineered a recommender system with **graph** similarity and **scikit-learn** to generate tailored movie suggestions
- Deployed a MongoDB database to manage 10K+ movies and users, enabling efficient data access for queries
- Curated structured datasets from 500+ web sources using BeautifulSoup and Pandas, optimizing data analysis

TECHNICAL SKILLS

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

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

Developer Tools: Docker, Git, OAuth2, CI/CD, JUnit, Agile, OpenAI, MCP

Databases & Cloud: Azure, Neo4j, PostgreSQL, MongoDB

Concepts: RESTful APIs, RAG, MLOps, Data Structures and Algorithms, DevOps