

Umair Arham

📞 647-739-2107

✉ contact@uarham.me

🌐 [LinkedIn](#)

🐙 [GitHub](#)

🌐 uarham.me

Education

University of Toronto

Bachelor of Science in Computer Science

Expected May 2027

Toronto, Ontario

- **Relevant Coursework:** Data Structures, Unix-Systems Programming, Software Design, Probability & Statistics

Experience

UrbanFood Alliance 🌐

Software Engineer Intern

June 2024 – August 2024

New York, NY

- Reduced manual customer support by utilizing a **chatbot system** integrated with the **OpenAI API**, resulting in automated resolution of **500+ customer inquiries per week**.
- Engineered a **scalable back-end architecture** using **Flask** to handle **10,000+ data records**, optimizing query performance and ensuring seamless data management.
- Implemented **natural language processing (NLP)** techniques using **prompt engineering**, improving chatbot accuracy and ensuring context-aware responses aligned with company standards.
- Collaborated with cross-functional teams to **debug and optimize system performance**, leveraging **profiling tools** to enhance system efficiency and increase user satisfaction by **15%**.

Projects

PromptLink 🐙 | React, FastAPI, LangChain, Neo4j

- Developed an intelligent **AI prompt-routing platform** using **React, FastAPI, LangChain, and Neo4j** to dynamically match user intent with the most suitable LLM, resulting in accurate, explainable, and high-performance AI responses
- Leveraged **LangChain and embedding models** to classify prompt intent and route tasks to LLMs like **GPT-4o or Gemini**, increasing model-task alignment accuracy by over **40%**
- Implemented a custom **response scoring system** using **cosine similarity, fluency checks, and chain-of-thought validation**, improving average response quality by **30%**
- Used **asynchronous FastAPI backend** and **context-aware caching** to reduce response latency by **50%**
- Built a **graph-based logging system** using **Neo4j** to trace interactions from prompt to response, enabling full transparency and advanced insights

CodeFill | JavaScript, Chrome Extensions, Gmail API, Microsoft Graph API, OAuth2

- Engineered a **Chrome extension** that detects and extracts **verification codes from Gmail and Outlook** emails in real time, then displays them in a dismissible popup for quick access
- Implemented **OAuth2 authentication** using the **Chrome Identity API**, ensuring secure access to Gmail and Outlook accounts
- Used **regex parsing** for multi-provider email formats, reducing manual lookup time by **30%**
- Reduced resource usage via a lightweight polling system using the **Chrome Alarms API**

NxtMovie 🌐 | Python, Sci-kit Learn, Pandas, Azure SQL

- Built a movie recommender app by leveraging **Python and Azure SQL**, providing users an intuitive solution to get personalized movie recommendations
- Optimized data storage for **10,000+ movies** by deploying a high-performance **Azure SQL Server database**, ensuring optimal data retrieval and storage
- Automated data collection from **500+ sources** by utilizing **Beautiful Soup** for web scraping and **Pandas** for data processing, culminating in a comprehensive database
- Implemented a personalized movie recommendation engine using **graph algorithms and sci-kit learn**, resulting in accurate and personalized recommendations enhancing user engagement

Technical Skills

Languages: Java, C, Python, JavaScript, HTML, CSS, SQL, Shell Scripting

Frameworks: React, Node.js, Tailwind, Django, Flask

Tools: Git, GitHub, Docker, Firebase, Azure

Concepts: REST APIs, Cloud Computing, DevOps, Agile, Unit Testing, Databases