Umad Akram

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EDUCATION

Ontario Tech University   *Oshawa, ON*
Bachelor of Science in Computer Science (Co-op)   *Expected Graduation: May 2027*
Relevant Coursework: Data Structures and Algorithms, Analysis & Design of Algorithms, Software Design, Operating Systems, Artificial Intelligence, Machine Learning, Statistics & Probability, Linear Algebra, Computer Architecture

EXPERIENCE

Creation   *Oct 2025 – Present*
Founder   *Toronto, ON*
- Developed a **Python** backend deployed on **AWS** that automated CAD model generation from natural-language prompts, producing full parametric models and attracting a waitlist of **300+** engineers.
- Engineered an LLM-based prompt parsing pipeline using the Gemini API to interpret natural-language inputs into SolidWorks compatible dimensions and constraint definitions across **100+** design prompts.
- Architected a real-time **SQL** data collection database logging user prompts, inference-generated action plans, and execution outcomes, producing **800+** labeled examples.

Canadian Imperial Bank of Commerce   *May 2025 – Aug 2025*
Software Engineering Intern   *Toronto, ON*
- Deployed **Microsoft Azure** Monitor dashboards with KQL-based alerting across **50+** virtual networks, establishing centralized observability for production infrastructure and incident response.
- Built a **Python**-based log parsing framework to process **1M+** weekly network events, enabling structured analysis of large-scale telemetry and faster root-cause identification during incidents.
- Migrated **200+** on-prem firewall rules into Microsoft Azure Firewall policies, resolving fragmented rule management and enabling consistent security enforcement across production workloads.

Canadian Imperial Bank of Commerce   *Sept 2024 – May 2025*
Software Engineering Intern - Co-op   *Toronto, ON*
- Configured and updated Network Security Groups across **1000** sites in the US and Canada, reducing policy update time from **2 hours to 15 minutes**, ensuring faster remediation of compliance gaps.
- Implemented **CI/CD** pipelines using Azure DevOps across **20+** services, configuring build triggers, environment specific release stages, and deployment approvals to support reliable production releases.
- Resolved a critical bug in a **Python** script, averting potential damages of over **$10 million** for the bank.

EGM Media   *Nov 2023 – May 2025*
Founder & Lead Engineer   *Toronto, ON*
- Engineered AI chatbots with **Python**, **Flask** and OpenAI APIs, eliminating **9 of 10** manual requests.
- Secured contracts with **20+** businesses by delivering automation solutions, generating **$10K+** in ARR.

PROJECTS

TradeGuard | *Python, Typescript, React.js, Gemini API, Moorcheh, MongoDB*   *Jan 2026*
- Engineered a real-time prediction market pipeline in **TypeScript** using the Kalshi API to ingest from **2000+** active markets to store current market state, trade history, and analysis results in MongoDB.
- Constructed an insider trading detection engine using **14** quantitative trading signals with a **Python**-based context engine and the Google Gemini API to detect suspicious behavior and produce a 0–100 risk score.

DocFlow | **Hack the North (Top 10 YC Finalist)** | *Python, Node.js, DynamoDB, Gemini API*   *Sept 2025*
- Engineered a documentation automation tool with **Node.js**, **GitHub Webhooks**, and Gemini 2.5 API to convert PR merges changelogs and Markdown docs, reducing update time from **2 hours to 10 minutes** per PR.
- Architected the backend with **DynamoDB**, **Python**, and AI-guided summarization to maintain an immutable history across **50+** merges, cutting onboarding time from **3 days to 1 day**.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Go, C/C++, SQL
Frameworks/Libraries: React.js, Node.js, Three.js, Next.js, Express.js, Flask
Tools/Technologies: Git, AWS, Microsoft Azure, Azure DevOps, Docker, DynamoDB, PostgreSQL, Kubernetes