Umad Akram

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Education

Ontario Tech University *Oshawa, ON*
Bachelor of Science in Computer Science (Co-op) *Sept 2023 – 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 in under **45 seconds** and attracting a waitlist of **200+** engineers
- Engineered a hybrid LLM pipeline combining custom fine-tuned models with **Gemini 2.5 Pro** for prompt parsing, enabling dimension and constraint extraction with **90% accuracy** across **100+** design prompts
- Implemented automation scripts leveraging the **SolidWorks API** to execute sketching, extrusion, and feature-tree operations, improving edit responsiveness from **25 to 6 seconds** per operation

Canadian Imperial Bank of Commerce *May 2025 – Aug 2025*
Software Engineering Intern *Toronto, ON*
- Designed and deployed Azure Monitor dashboards with KQL-based alerts across **50+ virtual networks**, reducing average incident detection time from **25 minutes to under 5 minutes**
- Developed a Python-based log parsing framework to analyze **1M+ weekly** network events, reducing root-cause analysis time from **45 minutes to under 10 minutes** and enabling faster incident resolution
- Migrated **200+** on-prem firewall rules to Azure Firewall policies, cutting manual rule-creation time from **3 hours to 20 minutes** while ensuring zero downtime for 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
- Resolved a critical bug in a **Python script**, averting potential damages of over **$10 million** for the bank
- Streamlined development workflows by cutting deployment time from **1 hour to 15 minutes**, by implementing Azure DevOps solutions, repository management, automated **CI/CD pipelines**, and deployment processes

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**
- Closed contracts with **20+** businesses by delivering automation solutions, generating **$10K+ in ARR**

Projects

DocFlow | **Hack the North (Top 10 YC Finalist)** | *JavaScript, Node.js, DynamoDB, Gemini API* *Sept 2025*
- Engineered a documentation automation tool with **Node.js**, **GitHub Webhooks**, and **Gemini 2.5 Pro 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** through up-to-date documentation

Ride Vision | *Go, TypeScript, React.js, Node.js, PostgreSQL, Docker, Nginx* *Aug 2025*
- Developed a full-stack ride-hailing simulator with a **Go API**, **Node.js** simulation engine, and **React Frontend**, supporting real-time driver–rider matching, routing, and surge pricing for **1,000+ simulated trips**

Technical Skills

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