

Akash Kothari

905-226-8698 | a27kotha@uwaterloo.ca | akashkothari.ca | linkedin.com/in/akashkothari | github.com/akashkothari

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Applied Science in Computer Engineering (Co-op)

EXPERIENCE

AI/ML Powered Software Engineering Intern

Jan. 2026 – Present

Toronto, ON

RamSoft

- Developing **AI-powered automation workflows** for a radiology platform, OmegaAI
- Built and deployed a **real-time medical transcription (MedASR) prototype** with chunked audio streaming to simulate live dictation to cut costs and protect patient information, using **Kubernetes**.
- Collaborating on backend integration, authentication flows, and staged deployment/testing of AI features within a production clinical environment.

Cloud Software Engineering Intern

Jun. 2025 – Sep. 2025

Mississauga, ON

Tripleview Technologies

- Automated retrieval of Microsoft Teams call recordings using **Azure, Microsoft Graph**, and **C#**, reducing manual labour by **10+ hours per week** for customer support teams.
- Implemented webhook triggers, polling logic, and **AI-powered summarization pipelines**
- Integrated results into **Zendesk**, creating structured detailed tickets, reducing miscommunication.
- Owned the full development cycle including design, coding, deployment, and monitoring, delivering production-ready features now being expanded into broader internal tooling.

PROJECTS

Mathora - Learn Math Visually | *React Three Fiber, Three.js, LLMs, Express*

Dec. 2025 – Present

- Currently building an interactive math instruction engine where an LLM dynamically controls **3D graphing, whiteboard, camera, and voiceover animations**.
- Designed a **custom animation library and parameter schema** exposed to the LLM via structured prompts, enabling safe, deterministic visual execution with fallbacks.
- Implemented a **timeline-based rendering system** that synchronizes explanations, animations, and narration for step-by-step learning.

Yuno Ball – NBA Odds & Prediction Engine | *Python, Flask, React, XGBoost, Data Engineering*

2025

- Scraped and processed **9,000+ NBA games**, engineered 27 statistical features, and iteratively reduced noise through feature ablation and importance testing to improve predictive signal.
- Trained and tuned **XGBoost and Random Forest models**, achieving **64.8% accuracy**, then benchmarked predictions against **Polymarket odds** to evaluate edge and grading logic.
- Built a full-stack system with a **Flask API** and **React frontend** featuring graded bets, parlay builder, and a Gemini-powered chatbot that explains model decisions using feature importance analysis.

Interactive WebGL Portfolio | *Unity (WebGL), React, JavaScript*

2026

- Engineered an interactive **Unity WebGL portfolio** embedded in a React application with cross-context event messaging between Unity and the frontend.
- Optimized build from **70MB to 10MB** by asset pruning and compression tuning, improving load performance.
- Implemented UI overlays, graceful fallbacks, and scroll-based 2D views to maintain accessibility if WebGL fails

LockIn AI – Distraction/Habit Detection App | *Python, YOLO, OpenCV, Next.js*

Hackathon Project

- We built a desktop productivity tool with **YOLO + OpenCV** for webcam inference and screen monitoring.
- Implemented a Python backend (**Flask + SocketIO**) with threaded workers for continuous detection and events.
- Created an **Electron shell + Next.js UI** for habit toggles, site blocking, and live monitoring feedback.

TECHNICAL SKILLS

Languages: Python, C/C++, C#, Java, JavaScript, TypeScript, SQL

Frameworks & Libraries: React, Next.js, Flask, Node.js/Express, Three.js, React Three Fiber

Cloud & DevOps: Azure, Kubernetes, Microsoft Graph API, REST APIs, Git

ML/Data: Scikit-learn, PyTorch, XGBoost, Pandas, Feature Engineering, Model Evaluation, Computer Vision

Game/3D: Unity, WebGL