

MOHAMMAD ANWAR

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SKILLS

Languages: TypeScript, Python, C++, Java, SQL, HTML/CSS

Frameworks & Libraries: React, Next.js, Node.js, Express, React Native, Django, LangChain, LlamaIndex, Pandas

AI & Data: LLM orchestration, RAG pipelines, prompt engineering, agentic workflows, PGVector, OpenAI API, embeddings

Infrastructure: AWS (Lambda, S3, EC2, CloudFront, SES, IAM), Docker, Redis, PostgreSQL, Supabase, Firebase, Nginx, Git, CI/CD

EDUCATION

Honours B.Sc, Computer Science – University of Toronto

2024 – 2028

EXPERIENCE

Software Engineer Intern

June 2025 – September 2025

Kumon – Education Technology

Toronto, ON

- Reduced manual payroll processing time by 90% by architecting a full-stack automation platform with Next.js and Supabase, leveraging Realtime subscriptions for live data sync and AWS Lambda for serverless computation.
- Achieved 100% data pipeline accuracy by building a backtesting framework validating financial calculations against 5 years of historical payroll records before production rollout.

Software Development Engineer Intern

January 2025 – April 2025

Unicom – Fintech Startup

Toronto, ON

- Built agentic pipelines for document ingestion and PDF parsing using LLM-driven extraction, classification, and structured data output—automating previously manual financial onboarding workflows.
- Reduced client-side latency by 60% via Redux-based global state management with memoized selectors and caching layers across a React Native application serving thousands of users.
- Designed Node.js microservices on AWS Lambda with stateless architecture and cold-start mitigation, integrating MongoDB and Supabase backends, load-tested to sustain 10k+ req/min.
- Cut storage costs by 40% via S3 lifecycle policies, Lambda-triggered dynamic compression, and CloudFront edge caching; containerized services with Docker and CI/CD via Jenkins.

Software Developer

September 2024 – Present

GenAI Genesis

Toronto, ON

- Increased sign-up conversion 1.6× by reducing bundle size and page load time 20% through asset migration to S3 and optimized Vercel deployments—directly improving top-of-funnel merchant growth.
- Sustained zero-downtime for 2,500+ users via a centralized Next.js operations dashboard, monitoring 500k+ daily events with PostHog and Axiom to enable real-time incident response.
- Patched 10+ critical vulnerabilities (XSS, CSRF) and hardened authentication flows and database access controls.

Software Developer

September 2024 – Present

Google Developer Group – University of Toronto Scarborough

- Built an AI-powered mass communications service using AWS SES and Lambda with a Next.js admin frontend and Firebase Realtime DB, enabling audience segmentation and automated personalized outreach to 1,000+ members.
- Designed an LLM-assisted event recommendation engine matching members to relevant workshops based on skill profiles and past attendance, increasing event sign-up rates.

Full Stack Developer Intern

June 2024 – September 2024

Kumon – Education Technology

Toronto, ON

- Built an end-to-end ETL automation platform using Python, Pandas, and Google APIs that eliminated 20+ hours/week of manual work across 250+ active clients.
- Developed a cross-platform scheduling application with Electron and React in TypeScript, replacing fragmented spreadsheet workflows with a unified interface.

PROJECTS

ContextLink — *LangChain, LlamaIndex, PGVector, FastAPI, OpenAI API, MCP, AWS*

- Built a production RAG system with agentic retrieval using LangChain, LlamaIndex, and PGVector, coordinated through an MCP middleware layer for AI tool orchestration; optimized prompt chains for 15% higher factual precision.

HawkEye — *Python, Computer Vision, NLP, Google Cloud, Voice AI*

- Built an AI accessibility tool enabling visually impaired users to query their environment via real-time computer vision, NLP-driven object identification, and voice-controlled agentic search—Hack the North project.

UofT Webring — *Next.js, Supabase, AWS (S3, CloudFront, Lambda, SES), Redis*

- Launched a portfolio discovery platform for UofT students with Supabase auth, serverless onboarding via AWS SES, and a CDN-backed asset delivery layer with CloudFront edge caching and on-the-fly image resizing.