

Akshat Shah

+1-782-882-6459 | dev.akshat.shah@gmail.com | [Portfolio](#) | [Linkedin](#) | [Github](#)

EXPERIENCE

Application Developer

Jun. 2026 – Present

Sobeys Inc.

Toronto, ON

- Integrated **Quantum Metric** digital experience analytics across all customer-facing websites, giving product and engineering teams session replay and funnel visibility into real user behavior.
- Building a **permission-aware knowledge assistant** over internal documentation with **Next.js**, **FastAPI**, and **Azure**, so answers never surface a document the person asking cannot already access.
- Shipped **gamified campaigns** in the customer mobile apps, adding interactive reward mechanics to drive engagement and repeat visits.

Developer

Jun. 2025 – Jun. 2026

Gander Social

Remote, Canada

- Developed the MVP of a social media web app using **React Native**, **Tailwind CSS**, and integrated it with the decentralized **AT Protocol** ecosystem.
- Implemented **SQLite (via IndexedDB)** for offline-first local data persistence and designed multilingual support for **5+ languages**.
- Collaborated in Agile ceremonies including grooming, standups, and **user acceptance testing**, contributing to rapid iteration and feature refinement.
- Implemented scalable service logic using **Node.js** APIs, designed for eventual integration with privacy-conscious data partners.

Lead Engineer

Jan. 2025 – Jun. 2025

Core Manufacturing

Remote, Canada

- Built and maintained a responsive **Next.js** website for manufacturing clients, optimizing UI for SSR and reducing load times by **40%**.
- Designed and deployed **10+ site-specific modules** with custom dashboards powered by **WebSockets** and reusable React hooks.
- Implemented dynamic server-side + client-side rendering strategies to enhance real-time machine data sync and user experience.
- Containerized deployments using **Docker** and automated infrastructure provisioning scripts with **Terraform** on AWS EC2.
- Integrated secure role-based dashboards with IAM-like permission systems and enhanced observability using CloudWatch logs.

Software Engineer

Sept. 2024 – Dec. 2024

Persuasive Computing Labs

Halifax, NS

- Built and maintained cross-platform features with **React Native Expo**, and **Tailwind**, ensuring 98% feature parity across devices.
- Improved user experience by optimizing frontend responsiveness and reducing load time by **35%** across various screen sizes.
- Collaborated with designers, researchers, and PMs in Agile sprints to ship **12+ user-facing features** while maintaining accessibility standards.
- Contributed to API testing and mocks using **Pytest** and **Postman** for experimental backend services.

Associate Software Engineer

Jul. 2022 – Jun. 2023

Ozone API

Remote, UK

- Developed and maintained scalable APIs using **Node.js**, and **Spring Boot**, supporting **10M+ monthly users**.
- Led CI/CD improvements using **Docker**, **Terraform**, and **Bitbucket**, reducing deployment time by 23%.
- Migrated legacy JavaScript components to **TypeScript**, cutting runtime bugs by 40% and improving code maintainability.
- Worked in regulated fintech environment aligning code practices to **ISO 27001** and **Open Banking** compliance requirements.
- Contributed to **Swagger/OpenAPI** documentation for external developers and actively communicated with **global banking clients** to support integration.

PROJECTS

Permission-Aware Knowledge Assistant | *Next.js, FastAPI, Python, Azure, RAG* 2026

- Built a **retrieval-augmented** assistant over internal documentation spread across a dozen systems, answering natural-language questions with citations back to the source document.
- Designed **permission-aware retrieval**: candidate documents are filtered against the asking user's own access rights before they reach the model, so an answer cannot surface content that person could not already open.
- Sole engineer end to end, covering the **Next.js** front end, the **Python** retrieval service, the **Azure** infrastructure, and the ingestion that keeps the searchable copy current as source systems change.

Donna | *Node.js, TypeScript, Docker, systemd, Telegram Bot API* 2026

- Built a **multi-agent assistant** on a self-managed GCP VPS: a supervisor process hosting specialised sub-agents, each with its own persona and tool surface, reachable over chat.
- Designed a **cost-aware model routing** layer that dispatches each task to the cheapest capable model and escalates only when needed, with idle session resets and **prompt caching** to bound standing cost.
- Ran the whole deployment solo: **Docker**, **systemd** user services, private networking over Tailscale, and a semantic-search index over the agent's own skill set.

Google Maps Agent MCP | *TypeScript, MCP, Playwright, pnpm workspaces* 2026

- Authored an open-source **Model Context Protocol** server giving AI agents a typed tool surface over Google Maps, including saved lists that the public APIs do not expose.
- Designed a hybrid architecture: public APIs wherever they exist, with a local browser worker (**Playwright**) only for authenticated account actions, so the model never handles DOM snapshots, selectors, or session cookies.
- Published as a **pnpm monorepo** with its own test suite, treating the narrow tool surface as the product rather than exposing raw browser state.

TECHNICAL SKILLS

Languages: Typescript, Python, JavaScript, Java Kotlin

AI & LLM: RAG, Vector Search, Embeddings, Anthropic Claude API, OpenAI API, Azure OpenAI, Model Context Protocol (MCP), Multi-Agent Orchestration, Prompt Engineering, Evals

Frontend: React.js, Angular, Next.js, Tailwind CSS, React Native

Backend & APIs: Node.js, Express.js, Spring Boot, RESTful APIs, FastAPI

Cloud & DevOps: AWS (EC2, S3, Lambda, VPC, IAM, WAF, EKS), Terraform, Docker, GitHub Actions

Database: MySQL, MongoDB, Firestore, PostgreSQL, Redis, pgvector

Security & CI/CD: OAuth, JWT, IAM, API Gateway, SOC2, CI/CD Pipelines, HIPAA

EDUCATION

Dalhousie University

Master of Applied Computer Science

Halifax, NS

Sept. 2023 – Dec. 2024