

Sheham Mohammed

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FULL-STACK SOFTWARE DEVELOPER

Full-stack developer with a track record of picking up unfamiliar tech and shipping fast. Built production tools from scratch that cut \$800/month in software costs, and took projects from zero to deployed across backend, frontend, cloud, and everything in between.

TECHNICAL SKILLS

Languages & Frameworks: TypeScript, JavaScript, Next.js, React, Node.js (Express), Python (Flask), Angular, Spring Boot, Java

Databases & Caching: PostgreSQL, Redis, SQLite, MongoDB, Prisma, Sequelize

Cloud & DevOps: Google Cloud Platform (GCP), AWS (EC2, S3, RDS, Amplify), Vercel, GitHub Actions (CI/CD), Nginx, Docker

PROFESSIONAL EXPERIENCE

Founding Software Developer | [Hexiv](#) (Digital Marketing startup) | London, UK *Dec 2025 – Present*

- Built and launched ShoutReach, a self-hosted cold email platform replacing \$800/month in third-party tools, featuring multi-step sequences, A/B testing, and reply detection.
- Built production-ready client site demos in Next.js including a bilingual (AR/EN) medical site with an interactive body SVG, chatbot, and online booking.
- Migrated email infrastructure from Google Workspace to Zoho (~90% cost reduction) and automated outreach workflows with Python and Make.com, eliminating ~90% of manual data entry.

Software Developer Co-op | Tesseract Software and Technology | Corner Brook, NL *Jun 2025 – Sep 2025*

- Researched and evaluated blockchain architectures and SDKs to inform core platform technology decisions.
- Produced full system documentation including whitepaper, tokenomics model, and UML diagrams (activity, sequence, use case, class) using Lucidchart.

Technical Analyst Co-op | Nasdaq Verafin | St. John's, NL *Sep 2024 – Dec 2024*

- Validated and processed inbound financial transaction data (Check21, ACH, Card, Wire) across a high-compliance enterprise environment, ensuring schema conformity and format accuracy for each transaction type.
- Diagnosed and resolved data pipeline issues including schema mismatches and incorrect client submissions by leveraging internal tooling and coordinating directly with bank representatives.
- Built the team's first structured troubleshooting documentation, authoring step-by-step guides for each transaction type and issue category to standardize cross-team resolution workflows.

Full-Stack Developer Co-op | PAL Aerospace | St. John's, NL *Jan 2024 – Apr 2024*

- Owned the full-stack development of a client-facing web application from UI design to deployment, with significant creative autonomy and regular presentations to the VP of IT.
- Built the frontend in Angular and implemented a RESTful backend API using Node.js, Express, and Sequelize ORM, including role-based access control via Microsoft Azure AD (MSAL).
- Managed the full agile development lifecycle in Azure DevOps, writing stories and tickets, planning sprints, handling pull requests, and resolving merge conflicts.

Team Supervisor | Lawtons Drugs | St. John's, NL *Sep 2021 – Sep 2025*

- Supervised daily store operations across home health care, cosmetics, pharmacy, and main store departments.
- Managed daily financial reconciliation with responsibility for safe counts exceeding \$10,000 during peak seasons.
- Resolved escalated customer complaints and maintained team performance across a 10-person team.

Peer Tutor | College of the North Atlantic | St. John's, NL *Sep 2022 – Sep 2023*

- Tutored Math, Physics, and Chemistry to CAS students, adapting teaching strategies to individual learning needs.

PROJECTS

[Panion](#) | *Next.js, TypeScript, PostgreSQL, Redis, Prisma, Vercel*

- Built a grocery price comparison PWA covering 3 major chains in St. John's, with product search, watchlists, shopping lists, pantry tracking, and recipe cost calculation.
- Integrated an AI-powered assistant with real-time awareness of product prices, pantry inventory, and dietary preferences, with Redis-backed rate limiting on the AI layer.
- Implemented multi-provider authentication (Google OAuth + Email OTP) and a crowdsourced price reporting system for community-driven data accuracy.

[ShoutReach](#) | *Python, Flask, GCP, SQLite*

- Built a self-hosted cold-email outreach platform featuring multi-step sequences, A/B testing, and timezone-aware scheduling.
- Developed a full email deliverability pipeline featuring IMAP reply detection via message-ID matching, automated bounce handling, and MX validation.
- Deployed on GCP and built a BYOK copy-review integration supporting multiple LLM providers for automated email sequence feedback.

[Taylor Insurance \(Capstone\)](#) | *React, Spring Boot, AWS, JWT*

- Built a full-stack insurance quoting platform with dynamic pricing formulas for home and auto policies, dual login flows for customers and employees, and full policy lifecycle management (creation, renewal, cancellation).
- Implemented JWT-based authentication with role-based access control for separate customer and employee portals.
- Independently deployed the full application on AWS using EC2, RDS, and Amplify.

EDUCATION & CERTIFICATIONS

Software Development Diploma

Sep 2022 – Sep 2025

College of the North Atlantic, St. John's, NL

GPA 3.71 - Dean's Honour List (multiple semesters)

Comprehensive Arts and Science (CAS) Transition Certificate

Jan 2021 – Apr 2022

College of the North Atlantic, St. John's, NL

GPA 4.00 - Awarded the Canadian Knowledge Scholarship

Oracle Gen AI Professional Certificate

Nov 2025

Oracle

Oracle Data Science Professional Certificate

Nov 2025

Oracle