

MARYAM SALEEM

Senior Full Stack Engineer | Backend & APIs | AI / LLM Systems

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SUMMARY

Backend-heavy full stack engineer with 8+ years on production systems, now building LLM products that real users touch. Most recent work is Remi, an AI support agent for Shopify merchants: a LangGraph agent with RAG on PostgreSQL and pgvector, shipped with its own security review, billing, and deploy pipeline. Before that, TypeScript, Node.js, and React behind SaaS and fintech platforms, including leading a team of 5+ engineers through design, code review, and release.

TECHNICAL SKILLS

Languages & Runtimes: TypeScript, JavaScript (ES6+), Python, SQL, Solidity, PHP

AI & LLM Engineering: LangChain, LangGraph, LangSmith (tracing, evaluation, prompt versioning), ReAct Agents, Tool Calling, Retrieval-Augmented Generation (RAG), Embeddings & Semantic Search, Vector Databases (pgvector), OpenRouter, OpenAI & Anthropic APIs, Prompt Engineering, LLM Observability & Evaluation, Guardrails & Human Escalation, AI-Assisted Development (Claude, ChatGPT, GitHub Copilot, Cursor)

Backend & APIs: Node.js, Express.js, REST API Design, GraphQL, Socket.io / WebSockets, Microservices, Authentication & Authorization (JWT, OAuth2, HMAC, RBAC), API Security, Rate Limiting, Idempotency, FastAPI (Python), Laravel (PHP)

Frontend & UI: React.js, Next.js, React Router 7, Redux, Vite, Shopify Polaris, HTML5, CSS3, Tailwind CSS, Bootstrap, Responsive Design

Integrations & Payments: Shopify App Development (Embedded Apps, App Bridge, Admin & Storefront GraphQL APIs), Stripe, Plaid, ACH Transfers, Bandwidth, NetSapiens, Web3.js, Smart Contracts

Databases & Data: PostgreSQL (incl. pgvector), MySQL, MongoDB, Redis, Prisma ORM, Query & Index Optimization, Performance Tuning

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, CloudWatch), Azure Functions, Serverless, Docker & Docker Compose, GitHub Actions, GHCR, Let's Encrypt / TLS, Self-Hosted VPS Deployment, CI/CD Pipelines

Architecture & Design: Scalable System Design, Hexagonal / Ports-and-Adapters Design, API Design, Distributed Systems, Microservices, High Availability, Secure System Design

Security & Compliance: Security Audits, Threat Modeling, IDOR & Access-Control Hardening, PII Redaction, Append-Only Audit Logging, GDPR Data-Subject Webhooks, Secure Coding

Quality & Practices: Vitest, Unit & Integration Testing, Code Review, Application Monitoring & Structured Logging (pino), Technical Documentation, Agile / Scrum, Team Leadership, Client Communication

CONCURRENT PART-TIME WORK

Held alongside the full-time roles below.

Senior Full Stack & AI Engineer | Tensorark (Remote)

Dec 2025 - Present

- Architected and shipped Remi end to end, an AI-powered Shopify app handling order tracking, returns, cancellations, address changes, and product recommendations; now live with pilot merchants.
- Built the LangGraph.js agent, RAG with PostgreSQL/pgvector, multi-turn memory, and policy-aware workflows using LLMs and OpenRouter.
- Kept LangChain behind a single adapter so the agent stays portable across model providers, and used LangSmith for tracing and evaluation of its outputs.
- Integrated Shopify through the Admin GraphQL API, Theme App Extensions, and an HMAC-secured App Proxy, with a Polaris admin dashboard and agent-action audit trail.
- Owned security, GDPR, idempotency, PII protection, human escalation, billing, and usage controls.
- Set up the full Docker + GitHub Actions deployment pipeline, with 113 passing Vitest tests and zero TypeScript errors.

EMPLOYMENT HISTORY

Senior Full Stack Engineer (Independent Contractor) | Holisto Systems (Remote)

Dec 2025 - Jul 2026

- Added enterprise features to a multi-tenant food safety, compliance, and operations SaaS for multi-outlet businesses, with every tenant sharing one database. React with React Router 7, Node.js, and MySQL through Prisma, on AWS with CloudWatch monitoring.
- Wrote the REST APIs and backend services behind digital checklists, audits, task management, and equipment/asset tracking.
- Handled the IoT side, pulling live temperature readings off connected equipment into the platform.
- Cleared legacy bugs across the existing codebase while shipping new features on top of it.
- Put together the analytics side: KPI reporting, compliance insights, task-completion tracking, and PDF/Excel exports across outlets.
- Sat with stakeholders to turn operational and regulatory requirements into something buildable, using Claude, ChatGPT, Copilot, and Cursor throughout.

Team Lead / Senior Software Engineer | Cinnova LLC (Remote)

Jan 2022 - Dec 2025

- Ran a team of 5+ engineers across sprint planning, technical design, and code review, and owned the architecture decisions. Worked with international clients on their roadmaps.
- Interviewed and hired engineers, onboarded and mentored the juniors, and set the code review and testing standards the team worked to.
- Reorganized data loading in the React and Next.js frontends (TypeScript) so the LOOPSTART order-management screens stopped fetching several record sets and modals in series.
- Optimized Node.js and Express APIs, starting with the order-management endpoint that filtered and searched large datasets across several modals at once. Traced slow paths to N+1 queries and image data stored in the database, then moved image handling to Azure Blob Storage while keeping only URLs in the records.
- Moved releases onto automated CI/CD pipelines across AWS and Azure. Received the Cinnova Performance Excellence Award in 2023.
- **LOOPSTART (Telecom)**: Led delivery of an enterprise telecom platform handling 10,000+ transactions a day on the Bandwidth and NetSapiens carrier APIs, covering bulk ordering of 100+ phone numbers at a time, number porting, reseller operations, and customer domains, running on Azure serverless functions.
- Developed the number ordering and porting workflows: availability lookup, inventory management, validation, and the regulatory compliance rules around port-outs and SMS campaigns.
- Wrote the agent communication and agent-availability features for the embedded chat, running across 100+ customer and reseller domains.
- Locked down chat abuse with session-level rate limiting, abusive-user blocking, abusive-word masking, and a three-level warning system for repeated spam.
- Integrated Kuma as a separate service-health layer, with the checks written in Python and FastAPI over SIP REGISTER and OPTIONS, then extended it with per-domain site configuration and status pages created from the portal.
- Cleaned up customer-specific chat problems, from domain restrictions to theme conflicts and CSS overlaps, while keeping the configurations reusable.
- **SMARTFY (FinTech)**: Connected Plaid for bank connectivity and financial-data aggregation, shipped the financial-management modules, and cut database load with PostgreSQL query tuning and Redis caching.
- **PROCAMP**: Traced the slowest queries to full-table scans and fixed them with indexing and query rewrites, and looked after AWS infrastructure across EC2 and Lambda, deployments, and production monitoring.

Senior Software Engineer | InvoZone (Lahore, Pakistan)

Mar 2021 - Dec 2021

- Developed blockchain applications on React, Node.js, Web3.js, and Solidity contracts, with live data sync over Socket.io.
- Reworked the REST APIs behind the transaction flows, improving reliability and cutting latency.
- **ARISWAP (Crypto Wallet)**: Wallet functionality, blockchain transaction workflows, and smart-contract integrations, backed by services for crypto transactions and account management.
- **ARTFY (NFT Marketplace)**: NFT minting, marketplace listings, and wallet integration, kept in sync through Web3.js and Socket.io.
- **THE RD LINK**: Built the first version of the front end for a platform connecting health and wellness brands with registered dietitians, in React with Redux, Vite, Tailwind CSS, and Bootstrap, and took its live chat module end to end, Redux on the front and Node.js behind it.

Software Engineer | Softech Systems (Pvt.) Ltd (Lahore, Pakistan)

Jan 2020 - Feb 2021

- **OGOUL MALL (Multi-Branch eCommerce)**: Multi-tenant inventory management across 50+ store locations, each tenant on its own database, plus a configurable discount engine and payment workflows. Tuned the Laravel and Redis backend behind the catalog and inventory APIs.
- **HEALTHCARE.PK (Healthcare Platform)**: Doctor discovery, appointment scheduling, patient profiles, and lab integration, on React, Node.js, and MongoDB, with the lab module written in core PHP.
- **NEXTHEALTH**: A medical and pharmacy eCommerce platform built in PHP.

Software Engineer | The Hexaa (Lahore, Pakistan)

Jun 2018 - Dec 2019

- **MAHUM ASAD**: Solo build of a full eCommerce platform covering product catalog, cart, checkout, and admin dashboard.
- **DANDL & ASHIYA YACHT CLUB**: Another solo build: a Stripe subscription membership system (recurring billing, auth, invoicing, and plan management) and a booking platform covering amenities, crew assignment, and reservations.

CERTIFICATIONS & EDUCATION

- Blockchain Specialization, University at Buffalo (Coursera)

B.Sc. (Hons.) Information Technology | University of Education, Lahore | CGPA 3.24 / 4.00

2014 - 2018