

MOHAMMED OMER SHAIK

AI SOLUTIONS ARCHITECTURE AND AUTOMATION

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PROFESSIONAL SUMMARY

AI product lead and solutions architect who builds APIs, data workflows and applied AI systems from business requirements. Experience includes banking integrations, bilingual procurement, a production intelligence agent and research tools with citations and validation. Works directly in Python and TypeScript, using AI assisted coding tools with testing, review and clear controls around automated decisions.

CORE SKILLS

AI systems: LLM APIs, AI agents, retrieval augmented generation (RAG), embeddings, semantic search, vector retrieval, tool calling, structured outputs, prompt engineering, evaluation

Backend and data: Python, TypeScript, JavaScript, Java, Node.js, FastAPI, REST APIs, SQL, PostgreSQL, Redis, Supabase, Weaviate, Prisma

Automation and reliability: API integrations, background jobs, document processing, authentication, authorization, audit logging, schema validation, retries, rate limiting, human approval

Delivery and tools: React, Next.js, Docker, Git, CI/CD, pytest, Vitest, Playwright, Claude Code, OpenAI Codex, Model Context Protocol (MCP)

PROFESSIONAL EXPERIENCE

AI Product Lead and Solutions Architect

CodeSpellStudio

Sep 2024 to Jul 2026

Canada and India (Remote)

- Designed and implemented client and studio products across APIs, data models, interfaces and AI workflows. Used AI assisted coding tools for implementation, code review and testing while owning architecture and release decisions.
- Built SANAD for a founder preparing a commercial launch, connecting procurement workflows with approvals, purchase orders, invoices and audit records. The live bilingual demo covers 126 screens and 452 registered states.
- Defined 904 English and Arabic browser cases for SANAD, covering interaction behavior, workflow states and right to left interfaces.
- Built and operated LaserEyedBen across about 16 live sources and more than 20 intelligence engines. Implemented event processing, retrieval, caching, fallbacks and rate limits.
- Internal LaserEyedBen benchmarks recorded an 85 percent cache hit rate below 100 milliseconds and full responses below 1.5 seconds. The public product was later paused when operating costs exceeded available funding.
- Built Lorenth with Python, FastAPI and React for research orchestration, source retrieval, cited outputs and document exports. Developed Palate as an open source MCP server, alongside Crucible, PlotLight, PropertyLedger, PARCEL and Conviction.

Product Owner, Content Moderation Tools

Majorel Canada

Oct 2023 to Aug 2024

Canada

- Analyzed recurring reviewer issues in content moderation and advertising review workflows, turning findings into requirements and recommendations for tool and process improvements.
- Translated policy changes and escalation patterns into acceptance criteria; clarified defects and expected behavior with operations, quality, engineering and linguistics teams.
- Applied privacy, policy and quality controls to review decisions and tooling feedback.

Quality Assurance and Process Improvement Analyst, Co-op

Elite Mobility Mfg.

May 2023 to Aug 2023

Mississauga, Ontario

- Cleaned and analyzed manufacturing quality data for statistical process control, KPI reporting and root cause investigation.
- Supported machine learning model validation and corrective actions with production, engineering and design teams.
- Reduced quality check time by 25 percent within two months by streamlining the inspection sequence and allocation of quality work.

PROFESSIONAL EXPERIENCE CONTINUED

Software Architect and Technical Product Lead

Bismi Services Pvt. Ltd.

May 2018 to Jun 2022

Hyderabad, India. Banking systems engagements for HSBC Bank and Saudi National Bank

- Designed Java and Python services, REST API contracts, relational schemas and SQL workflows for banking operations and reporting.
- Documented data mappings, service dependencies, validation rules and failure handling so engineering and QA teams shared implementation and release criteria.
- Automated recurring reports, data movement and quality checks to reduce manual processing and identify discrepancies earlier.
- Investigated production issues across services, databases and integrations; coordinated corrective work with business, engineering and QA teams.

Ad Operations Specialist, Campaign Delivery and Quality

Yahoo

Sep 2017 to May 2018

India

- Supported campaign setup, delivery monitoring, reporting and issue resolution in digital advertising operations.
- Checked campaign inputs for accuracy and coordinated corrections across targeting, creative, tracking and reporting data.

Founder, Product Manager and Operations Lead

Instazop

Apr 2015 to Aug 2017

Kalaburagi, India

- Built and launched a local online grocery marketplace, owning the website, wireframes, ordering flow, vendor relationships, delivery process and customer service.
- Supervised eight delivery personnel; the service averaged 20 customers per day in its first month.
- Used customer conversations and order patterns to improve assortment, promotions and fulfillment. Approximately 60 percent of customers returned the following month.

EDUCATION

Ontario Graduate Certificate, Artificial Intelligence and Machine Learning

Lambton College, Toronto, Ontario Jan 2022 to Aug 2023

Bachelor of Engineering, Computer Science and Engineering

P.D.A. College of Engineering, Kalaburagi, India Completed Jul 2017

CERTIFICATIONS

Professional Scrum Product Owner I (PSPO I), Scrum.org

AI in Fintech Essential Training, LinkedIn Learning 2023

Excel Essential Training (Microsoft 365), National Association of State Boards of Accountancy (NASBA) Jul 2023