

MOHAMMAD ZAKI JARIWALA

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AI AUTOMATION ARCHITECT • SYSTEMS ENGINEER

PROFESSIONAL SUMMARY

Systems Engineer and automation architect specialising in end-to-end LLM orchestration, GenAI workflow design, and data pipeline engineering. Expert in building secure, high-performance automation frameworks using Python, multi-model API integration (Claude/Gemini), and headless distribution systems. Adept at bridging the gap between legacy enterprise infrastructure restrictions and modern, localised AI workflows to drive operational efficiency.

TECHNICAL SKILLS

AI & AUTOMATION	Confident: Anthropic Claude API Integration, Prompt Engineering, GenAI Workflow Design & Orchestration, Email Marketing Automation • Familiar: Agent Deployment & Orchestration, LLM Governance & Output Quality Frameworks
INFRASTRUCTURE & OPS	Confident: Linux (RHEL/Ubuntu), Windows Server, VMware/Hypervisors, Identity & Access Management (IDM), Disaster Recovery, Incident Management, High Availability Systems (99.999% SLA)
CLOUD & PLATFORM	Confident: Docker & Containerisation (On-premise), Cloudflare Hosting/Edge Deployment, GitHub Actions, CI/CD Pipelines • Familiar: AWS (Solutions Architect Associate), Google Cloud Platform (GCP Monitoring/Observability), Oracle Cloud Infrastructure, Site Reliability Engineering (SRE), IaC
DEVELOPMENT STACK	Confident: Python (ETL/Data Pipelines/Scripting), HTML/CSS, Astro (JAMstack), SQLite (Embedded/Pipeline) • Familiar: JavaScript/TypeScript, Dart, C++ (Embedded Systems), Flutter, Supabase/PostGIS
SECURITY & NETWORK	Confident: TCP/IP, DNS, VPN, Firewall & ACL Management, Access Governance, Incident Response • Familiar: Security Operations Support (SecOps)

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (TCS) • State Bank of India (SBI GITC) 2023 — Present
Systems Engineer (IDM & DB) *99.999% Uptime • 30,000+ Users • 150+ Servers*

- Lead an operations team supporting enterprise banking infrastructure and mission-critical IDM/database platforms for 30,000+ internal bank branch users.
- Maintain 99.999% system availability for Tier-1 banking applications, acting as the bridge between legacy restrictions and modern operational efficiency.
- Administer a multi-environment fleet of 150+ Linux (RHEL) and Windows servers, automating patch management, access governance workflows, and incident response.
- Architected and executed Disaster Recovery drills and runbooks, successfully reducing Recovery Time Objective (RTO) by 50% for Tier-1 applications.

Independent Professional Coaching Practice 2025 — 2026
Technical Soft Skills Coach & Founder *50+ Clients • 1:1 Format • Concluded Feb 2026*

- Delivered technical interview readiness and executive communication coaching to 50+ engineering professionals and management candidates.
- Conducted intensive 1:1 mentorship sessions focused on behavioural frameworks, technical storytelling, and high-impact presentation skills.
- Designed and iterated a structured coaching curriculum covering STAR-method framing, stakeholder communication, and senior-level interview strategy.

SELECTED TECHNICAL PROJECTS

Content Automation Pipeline

2025 — Present

End-to-End LLM Orchestration Framework

85% Faster Drafts • 20,000+ Lines Processed/Run • 12 Niches

STACK: Python, Gemini 1.5 Pro, Tauri, Rust, React 19, Vite, Tailwind CSS, GitHub Actions, GitPython, Medium REST API

- Architected an end-to-end automation pipeline to transform high-intent YouTube transcripts into professional, 1500+ word Medium articles across 12 distinct niches.
- Reduced end-to-end content generation time-to-draft by 85%, enabling rapid scaling across specialised verticals without sacrificing editorial tone.
- Engineered a modular orchestration layer (pipeline.py) managing state tracking via JSON, heuristic validation, and automated GitHub synchronisation via GitPython.

Zamaan Marine Digital Ecosystem

2025 — Present

Founder / Family Venture

200+ B2B Prospects/Campaign • 90%+ Inbox Delivery • ~60% Faster Listing

STACK: Astro, Cloudflare Pages, GitHub Actions, WordPress, cPanel, Brevo, Claude API, Python, PostHog, eBay API

- Built a comprehensive digital presence for a business selling second-hand industrial automation and marine equipment parts, reducing time-to-market for new listings by ~60% through eBay API automation and daily CI/CD rebuilds.
- Engineered a full-stack cold email marketing automation agent in Python, integrating Brevo, ZeroBounce, and Hunter.io for lead validation and Claude API for personalised outreach copy.
- Implemented professional email infrastructure with SPF, DKIM, and DMARC records, achieving inbox delivery rates above 90% across cold outreach campaigns.

Raaz-o-Neyaz — Islamic Supplications PWA

2024 — Present

Offline-First Progressive Web App

40+ Beta Testers • 22,000+ Rows Restructured • Sub-10ms Queries

STACK: Python, JavaScript, PWA, Service Workers, SQLite

- Engineered a Python reverse-engineering pipeline to extract and restructure a 22,000+ row SQLite database from an Android APK, converting legacy relational tables into optimised JSON, CSV, and PDF formats.
- Achieved sub-10ms local query times by restructuring legacy tables into indexed data frameworks — a 4x improvement over the original APK's load performance.
- Built an offline-first Progressive Web App using Service Workers and lazy caching to deliver 80MB of multilingual Islamic content (Arabic, Urdu, English) with zero server overhead.

EDUCATION & CERTIFICATIONS

Bachelor of Technology (B.Tech) — Electronics & Communication Engineering

Graduated 2022

Dharmsinh Desai University

- **AWS Certified Solutions Architect – Associate (SAA-C03)** — Amazon Web Services
- **Google GenAI Leader** — Google Cloud

Completed
2024

Completed
2025