ADIL RASHEED HASHMI

Senior Software Engineer | React, Next.js, Node.js, AWS

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PROFESSIONAL SUMMARY

Senior Software Engineer with 4 years of experience building and operating production full-stack systems across SaaS, fintech, media, healthcare, and AI-enabled products. Strong in React, Next.js, Node.js, PostgreSQL, and AWS, with hands-on ownership across architecture, API and database design, performance, security, deployment, and production support. Currently working as a Senior Software Engineer & Team Lead, combining hands-on development with technical planning, mentoring, and client-facing delivery.

TECHNICAL SKILLS

Frontend: React, Next.js, JavaScript, TypeScript, TanStack Query, Tailwind CSS, React Native, Recoil

Backend & APIs: Node.js, Express, Hono, Python, FastAPI, REST APIs, Webhooks, Background Jobs / Cron

Databases & Data: PostgreSQL, MongoDB, MySQL, Prisma ORM, Supabase, Firebase, Redis (Caching), Schema Design, Query Optimization

Cloud & Infrastructure: AWS (EC2, Lambda, RDS/Aurora, S3, IAM, EBS), GCP (Cloud Run, Cloud Build, Secret Manager, Firestore, Vertex AI), Cloudflare, Linux, Nginx, PM2, GitHub Actions CI/CD, Docker

AI & Integrations: OpenAI API, Gemini / Vertex AI, RAG, ChromaDB, Embeddings, Semantic Search, Prompt Engineering, Tool Calling, Retell, MCP

Security & Auth: JWT Access/Refresh Tokens, OAuth, Firebase Auth, RBAC, httpOnly Cookies, Rate Limiting, XSS/SSRF/CSP Hardening, Secret Management

PROFESSIONAL EXPERIENCE

hytGenX | *Hybrid, Lahore, Pakistan*

Senior Software Engineer & Team Lead | Mar 2025 – Present

- Lead hands-on engineering delivery while managing 2 developers and previously a 6-person cross-functional team across engineering, QA, and design; own architecture decisions, requirement breakdown, mentoring, release validation, deployments, delivery timelines, and direct client communication.
- Built a production commission automation platform from scratch in ~4 weeks, supporting ~60 sales reps across 13 suppliers and ~1,800 accounts; validated biweekly runs exceeding $400K with complex rule matching, multi-party splits, retroactive recalculation, audit trails, and automated Excel reporting.
- Designed and implemented the security and access architecture for a GCP-hosted AI coding assistant, adding Firebase authentication, tiered anonymous/signed-in/BYOK access, Firestore-backed quotas and rate limiting, encrypted API-key storage, Secret Manager/IAM integration, Cloudflare Turnstile protection, and structured Cloud Logging.
- Built two hosted MCP services from scratch on GCP Cloud Run, exposing repository listing, code search, and file retrieval across 54 public GitHub repositories for Claude Code, Cursor, and Antigravity; also restored a broken GitHub MCP integration and automated GitHub-to-Cloud-Build/Cloud-Run deployments.
- Built AI voice-calling and tool-calling workflows using Retell and OpenAI, including calendar availability checks, meeting creation/update/cancellation, retry handling, webhook processing, transcript analysis, and delayed multi-step lead workflows through a visual automation engine.
- Designed and built a redundant Aircall ingestion pipeline using AWS Lambda and RDS, preserving call events independently of the primary system and enabling idempotent recovery after outages without duplicating existing records.
- Built a custom pure-Python fuzzy-matching engine using Levenshtein distance, token-set similarity, and Haversine-based geographic scoring to reconcile claimant identities across a ~3.5M-record government-data pipeline.
- Built rule-based deduplication, batch-export tracking, and mailed/return-to-sender reconciliation workflows with co-claimant safeguards and auditable merge/unmerge handling across downstream outreach operations.
- Operated production AWS EKS/MSK infrastructure and extended CI/CD governance across 4 repositories, with pipelines running 74+ checks per PR, cryptographic evidence binding, audit receipts, and merge-control validation.

Software Engineer | Nov 2024 – Feb 2025

- Independently built and operated a production entertainment platform end-to-end using Next.js, Node.js/Express, Prisma, and PostgreSQL, with separate public and admin applications; supported 83K+ visitors and 136K+ page views in a rolling 30-day period, with 2,850+ registered users.
- Hardened production authentication, rich-text content, link unfurling, and file-upload flows with rate limiting, XSS sanitization, SSRF protection, secure file handling, JWT access/refresh flows, and RBAC.

- Designed and implemented role-based access control for an internal HRMS, mapping company hierarchy into permission rules across employee management, attendance, clock-in/out, leave workflows, and internal resources.

React Native Full Stack Developer (Contract) | Oct 2024 – Nov 2024

Triangle Wallet | *Remote*

- Contributed to a production fintech mobile application supporting banking and cryptocurrency workflows, primarily building responsive React Native interfaces, authentication flows, and live financial-data visualizations, with additional backend contributions.

Associate MERN Developer | Apr 2024 – Nov 2024

FusionWave (Pvt.) Limited | *Hybrid, Lahore*

- Built and contributed to 30+ client-facing web and mobile applications across e-commerce, education, solar estimation, marketplaces, and service-based products using React, React Native, Tailwind CSS, Recoil, Firebase, and REST API integrations.
- Introduced TanStack React Query into project workflows and built reusable query/mutation hooks and shared API clients for server-state management across REST-backed React applications.
- Built an interactive solar-estimation wizard using the Google Maps JavaScript API, satellite imagery, roof-area drawing and area calculation, converting roof area, household consumption, and EV usage into estimated system capacity and projected savings with Chart.js reporting and Firestore lead capture.
- Implemented responsive marketplace flows from Figma through production, including product listings, add-to-cart and cart management, Stripe-backed checkout integration, order placement, buyer/seller order views, shipping and country-based UI states, returns/refunds interfaces, and real-time buyer-seller chat using Firebase.

Intern, PHP / jQuery | Aug 2023 – Feb 2024

ibex. Pakistan | *On-site, Lahore*

- Contributed to a PHP/jQuery-based Training Management System serving 5,000+ users during an engineering internship, working on bug fixes, legacy-code refactoring, and MySQL optimization involving query tuning, indexing, normalization, testing, and debugging.

EDUCATION

Bachelor of Science in Software Engineering | Sep 2019 – Jul 2023

COMSATS University Islamabad, Lahore Campus

ADDITIONAL INFORMATION

IELTS Academic: Overall Band 6.5