ALI HASSAN

Full Stack AI Engineer

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PROFESSIONAL SUMMARY

Full stack engineer with 4+ years of experience, now focused on building AI products. I use LangChain, LangGraph, LlamaIndex, and RAG to build agents and workflows, and I have shipped MCP connectors for Claude and ChatGPT. I like owning projects end to end, from API design to production support, and I solely built Retell AI's CRM integration platform.

TECHNICAL SKILLS

AI & LLM Engineering: LangChain, LangGraph, LlamaIndex, LangSmith, Retrieval-Augmented Generation (RAG), AI Agents, Model Context Protocol (MCP), Hugging Face, Fine-Tuning, Embeddings, LLM Observability & Evaluation

Vector Databases: Pinecone, FAISS, Chroma

Languages: TypeScript, JavaScript (ES6+), Python

Backend: Node.js, Express.js, NestJS, FastAPI, Flask

Frontend: React.js, Next.js, Angular, Redux / Redux Toolkit, Electron.js, HTML5, CSS3

Databases: PostgreSQL, MongoDB, Redis, Firebase

Cloud & DevOps: AWS (Lambda, EC2, S3), Git/GitHub, CI/CD Pipelines

Real-Time & Integrations: Socket.IO, Pusher, Firebase (FCM), Webhooks

Testing & QA: Jest, Cypress, Enzyme, Unit Testing, Integration Testing, End-to-End Testing

PROFESSIONAL EXPERIENCE

Senior Full Stack Developer | AB {Ark} Private Limited **Sep 2024 – Present**
Lahore, Pakistan

- Solely architected and shipped Retell AI's multi-tenant CRM integration platform (integrations.retellai.com) in Node.js/TypeScript, Express, PostgreSQL, and Redis using ports-and-adapters (~22k LOC); integrated Salesforce, Zoho, GoHighLevel, Notion, Airtable, Google Workspace, Slack, and Epic FHIR via OAuth2/PKCE, JWT enrollment, HMAC-signed webhooks, and idempotent call writeback.
- Built native client apps for each platform plus Zapier, Make.com, n8n, ChatGPT, and Claude MCP connectors, enabling no-custom-code AI phone agent triggering and automatic syncing of transcripts, sentiment, and outcomes back to source systems.
- Designed fail-closed webhook handling, multi-tenant isolation, and retry-safe idempotent writeback; owned the full project end-to-end including API design, auth/security, caching, platform UIs, connectors, deployment, and production support.
- Partnered directly with Retell AI's core team (Technical Director and Lead Backend Engineer) through weekly meetings to align API contracts, security, webhook behavior, and releases, delivering an AppExchange-grade integration ecosystem that removed custom engineering for customers.
- Build and maintain fintech applications spanning accounting, inventory management, and payroll processing, ensuring regulatory compliance and reporting accuracy across finance-critical modules.
- Drove sprint planning and code review practices that lifted code quality and system maintainability by 15% across finance-related features.
- Shipped secure, well-documented, and maintainable code that reduced bug reports by 30%, streamlining financial audits and future enhancements.

Full Stack Developer | NexTek Solutions **Apr 2023 – Sep 2024**
Lahore, Pakistan

- Designed and delivered high-quality software applications aligned to user and business requirements.
- Improved application performance and reliability through targeted refactoring and optimization.
- Streamlined development processes, reducing delivery time and operational costs.
- Contributed to sprint planning and code reviews, driving a 15% improvement in code quality and maintainability.
- Collaborated with cross-functional teams to deliver projects consistently on time and within budget.
- Mentored junior engineers on best practices, improving their performance and code-standard adherence by 20%.

MERN | MEAN Stack Developer | Digimark Developers **Jun 2021 – Mar 2023**
Lahore, Pakistan

- Architected and led a full React-based rewrite of a legacy application, improving maintainability and performance.
- Extended a legacy Angular application with new features while resolving critical bugs, improving overall stability.
- Actively participated in team discussions and product feedback sessions, helping shape technical direction.

MERN Stack Developer | Wanological Solutions **Jan 2020 – May 2021**
Lahore, Pakistan

- Designed and implemented performance-improvement strategies that supported continuous product improvement.
- Partnered directly with clients to understand requirements and translate UX designs into accurate, functional front-end code.
- Delivered work across multiple customer engagements, quickly adapting to new tools and technologies to improve efficiency and productivity.

KEY PROJECTS

Retell AI CRM Integration Platform | AB {Ark} Private Limited

- Multi-tenant integration platform (Node.js/TypeScript, Express, PostgreSQL, Redis; ~22k LOC) connecting Retell AI phone agents to Salesforce, Zoho, GoHighLevel, Notion, Airtable, Google Workspace, Slack, and Epic FHIR, with Zapier, Make.com, n8n, ChatGPT, and Claude MCP connectors. Secured with OAuth2/PKCE, JWT enrollment, HMAC-signed webhooks, and idempotent call writeback.

Eventas – Multi-Tenant Event Management System

- Built the backend using FastAPI and PostgreSQL, featuring dynamic RBAC, custom permissions, team management, and vendor/sponsor modules. Developed an AI-powered chatbot with LangGraph to automate reminders, workflows, task management, and progress tracking across event operations.

Fintech Financial Operations Platform | AB {Ark} Private Limited

- Full-stack accounting, inventory, and payroll system integrated with QuickBooks; improved core module performance and reduced production bug reports by 30% while maintaining regulatory compliance.

Legacy Application Modernization | Digimark Developers

- Led a ground-up React rewrite of a legacy application and extended a parallel Angular codebase with new features and bug fixes, improving performance and long-term maintainability.

Client Web Platforms | Wanological Solutions

- Delivered multiple MERN-stack web applications, translating client UX designs into production-ready front-end code across varied customer engagements.

EDUCATION

Bachelor of Information Technology **2016 – 2020**
University of Narowal

CERTIFICATIONS

- Claude Code in Action – Anthropic
- Claude with the Anthropic API – Anthropic
- Introduction to Model Context Protocol – Anthropic
- IT for Business Success – HP LIFE
- Business Communications – HP LIFE
- Success Mindset – HP LIFE