

Mohsin Hayat

Senior Software Engineer specializing in Applied AI and Backend Systems

Lahore, Pakistan · [Email](#) · [Website](#) · [GitHub](#) · [LinkedIn](#)

SUMMARY

Senior Software Engineer with 6+ years of international remote experience building applied AI and backend systems across airline, ecommerce, and healthcare platforms. I focus on dependable services, useful agents, and the data and workflows around them.

CORE SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Applied AI: LangGraph, LangChain, NL-to-SQL, RAG, model routing, OpenAI API, Anthropic Claude, Pinecone

Backend and data: Node.js, FastAPI, Express.js, GraphQL, REST, PostgreSQL, MongoDB, ArangoDB, ClickHouse, Redis

Platform: AWS, GCP, Docker, Kubernetes, GitHub Actions, GitLab CI/CD, microservices, event sourcing, CQRS

EXPERIENCE

OnService.AI | Senior Software Engineer

July 2026 – Present · Remote (United States)

- Building production conversational AI experiences for World2Fly and LASER Airlines across Python services, LLM agents, and airline booking workflows.
- Integrating conversational agents with KIU PSS and related airline workflows for booking information, payments, check-in, flight changes, ancillary services, and passenger support.

Trafilea Tech E-commerce Group | AI Engineer

June 2025 – July 2026 · Remote (United States)

- Built a production NL-to-SQL agent used by leadership and marketing teams to query campaign data across 30+ tables in plain English, with schema-aware retrieval, table allowlists, date-bound queries, structured outputs, and validation checks.
- Architected a three-level hierarchical LangGraph budget copilot reasoning in the context of approximately \$5M/month in advertising spend across brands, countries, and channels.
- Built an AI ingestion pipeline from AWS SNS through SQS to ClickHouse for multi-gigabyte advertising datasets and long-running LangGraph recommendation workflows.

Awell Health | Senior Software Engineer

April 2021 – May 2025 · Remote (Belgium)

- Owned core APIs across orchestration, task management, and workflow design, helping scale the platform to 100K+ clinical workflows per month.
- Designed event-driven systems using CQRS, added 100+ Cypress end-to-end tests, helped reduce deployment time by about 50%, and contributed to hosted-pages, ui-library, and awell-extensions.

EARLIER EXPERIENCE

Tintash | Software Engineer

July 2020 – April 2021

- Built full-stack interactive and booking products with Node.js and React.

SolutionInn | Web Developer Intern

June 2019 – October 2019

- Built real-time tutoring features across Node.js, React, Socket.io, PHP, MySQL, and iOS.

Respond.io (formerly Rocketbots Limited) | Frontend Developer Intern

July 2018 – September 2018

- Built Vue and Vuex product features, a Preact webchat plugin, Socket.io integrations, and Node.js APIs.

Upwork & Fiverr | Freelance Product Engineer

July 2016 – September 2018

- Delivered 15+ MVPs for international clients and achieved Top Rated status on Upwork.

INDEPENDENT PROJECTS

SnippetGraph

A versioned knowledge-base authoring and publishing platform that composes snippets into pages and publishes immutable, hash-verified Git release artifacts through the GitHub GraphQL API.

FirstCustomer

A landing-page review tool that evaluates 20+ deterministic signals and synthesizes a human-readable report with an LLM.

EDUCATION AND ACHIEVEMENTS

Bachelor of Science in Computer Science, National University of Computer and Emerging Sciences (FAST-NUCES), Lahore, Pakistan (2016–2020).

- FAST-NUCES Bronze Medalist and Dean's List honoree
- First place in an ACM programming competition
- 11th place at ICPC Asia Regionals 2019
- Delivered 15+ MVPs and achieved Top Rated status on Upwork

RECOMMENDATIONS

Verified recommendations from colleagues and engineering leaders: mohsinht.com/recommendations