

M Ibraheem Rehman Qazi

github.com/ibraheem15

| Full Stack AI & Cloud Engineer |

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SUMMARY

Software Engineer specializing in **Cloud Infrastructure (AWS)**, **MLOps**, and **High-Performance Backend Systems**. Proven track record of architecting scalable SaaS platforms on **AWS** using **Kubernetes** and building event-driven architecture with **Redis**. Expert in bridging the gap between application development and infrastructure, automating CI/CD pipelines, and deploying production-grade AI models.

TECHNICAL SKILLS

- **Cloud & DevOps:** AWS (EKS, EC2, IAM, CloudWatch, S3), Kubernetes, Karpenter, Docker, Terraform, CI/CD (GitHub Actions), Tailscale.
- **Backend & Data:** Node.js, Redis (Queues/PubSub), PostgreSQL, Supabase, MongoDB, REST APIs.
- **MLOps & AI:** Model Training Pipelines, Hugging Face, Automated Retraining, AI Spam Detection, LLM Integration.
- **Frontend:** React, TypeScript, TanStack Query, Vite, Tailwind CSS.

PROFESSIONAL EXPERIENCE

VECTOR

Full Stack Software and Cloud Engineer | *Full-time*

Islamabad, Pakistan

SEPTEMBER 2025 – PRESENT

- **AWS EKS & Karpenter Orchestration:** Architected a production-grade Kubernetes cluster on AWS from scratch to host a Generative AI platform. Implemented **Karpenter** for just-in-time node provisioning, significantly reducing compute costs by rightsizing instances based on pod demands.
- **Event-Driven Redis Architecture:** Engineered a high-concurrency backend using **Node.js** and **Redis** to manage complex job scheduling. Utilized Redis queues to decouple app generation, AI processing, and container orchestration into parallel worker streams.
- **Infrastructure Security & Observability:** Enforced AWS best practices by designing granular **IAM policies** (Least Privilege) and setting up centralized logging/monitoring via **AWS CloudWatch and Cloudtrail** to ensure 99.9% system availability.
- **Performance Optimization:** Integrated **TanStack Query** with React/Vite on the frontend to handle real-time data synchronization with the backend, reducing server load and improving user experience.

HEXLER TECH

Full Stack Engineer (Web & App) | *Full-time*

Islamabad, Pakistan

JUNE 2025 – AUGUST 2025

- Developed the **NSTP Incubator Portal** (MERN Stack) to manage operations for 100+ startups, handling complex user roles and gate entry systems.
- Built an AI-driven React Native application featuring speech-to-text and LLM summarization, using a **Supabase** backend for real-time data syncing.

XFLOW RESEARCH

Software Engineer | *Apprenticeship*

Islamabad, Pakistan

JUNE 2024 – APRIL 2025

- **Dockerized VoIP Products:** Led the containerization of legacy VoIP software, enabling seamless cloud deployment and reducing setup time by 40%.
- Contributed to open-source 4G communication protocols (SIP/RTP) and integrated legacy 2G/3G tech into modern software solutions used by 100,000+ customers.

SALESFLO

Web Developer | *Internship*

Karachi, Pakistan

JUNE 2023 - AUGUST 2023

- Partnered in the New Initiatives Department to redesign the SalesFlo Core App, enhancing user experience for 50+ in-house team.
- Delivered coding support to integrate 30+ new UI features, improving product functionality by 60%.

FEATURED PROJECTS

End-to-End MLOps: AI Spam Detection System | Dec 2025 – Jan 2026 | github.com/ibraheem15/Spam-detection-api

- **Project:** A browser extension and API that detects spam in Fiverr messages using a custom-trained AI model.
- **CI/CD & DevOps:** Built robust **GitHub Actions pipelines** with Docker layer caching to automate testing and deployment to **Hugging Face Spaces**.
- **Automated Retraining Pipeline:** Designed a feedback-loop architecture where user-flagged messages automatically trigger a retraining pipeline, updating the model version without manual intervention.

Self-Hosted Homelab Ecosystem | Always Ongoing | github.com/ibraheem15/Ibraheem-HomeLab-Server

- **Infrastructure:** Orchestrated a private cloud environment using **Docker** managing multiple services including **Immich** (asset backup), **FileBrowser**, and **Pi-hole** (network-wide ad blocking/DNS).
- **Networking & Backups:** Configured **Tailscale** for secure remote VPN access and implemented **Basel** for automated, redundant backups to external storage.

BaadeSaba Web App | November 2023 – December 2023

- **Launched an e-commerce website attracting over 5,000+ users/month, later containerized with Docker and deployed to AWS for enhanced portability, high availability, and auto-scaling.**

EDUCATION

NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES

Islamabad, Pakistan

Bachelor of Software Engineering; Major in Software Engineering

2021 – 2025

Key Courses: OOP, Data Structures, Operating Systems, Web & Software Engineering, Software Architecture, Information Security, DevOps, MLOps, Software Quality.

LEADERSHIP & ENGAGEMENT

COORDINATOR, NASCON 2023

FAST University, Islamabad

- Organized logistics for the SE Quiz with 200+ participants, boosting engagement by 40% and achieving a 95% satisfaction rate.

MEMBER, IEEE

FAST University, Islamabad

- Maintained IEEE standards for 50+ CS publications; identified 15+ discrepancies using BPMN tools.

MEMBER, FAST DATA SCIENCE SOCIETY (2022 – 2023)

FAST University, Islamabad

- Represented the institution at NASCON and organized 5+ Data Science seminars, averaging 50+ attendees each.

ADDITIONAL INFORMATION

- **Languages:** Fluent *English, Urdu*; Basic *German*
- **Certifications:** AWS (Cloud Practitioner)