

MUHAMMAD ABDUL NAFAY

SOFTWARE ENGINEER -
FULL STACK, DEVOPS & AUTOMATION

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Riyadh, Saudi Arabia

Transferable Iqama

SUMMARY

Full Stack Developer & DevOps Engineer with 4+ years of experience delivering enterprise-grade, cloud-native, and AI-enabled applications. Skilled in Python, Node.js, React, Django, and FastAPI, with AWS (EC2, S3, CloudFront, WAF), Docker, Kubernetes, and CI/CD via GitHub Actions. Experienced in integrating LLMs for AI-driven automation, building real-time monitoring portals, and managing devices with Paramiko and Netmiko across multi-vendor network environments.

EXPERIENCE

Network Automation Engineer

Saudi Energy - Riyadh, KSA



March 2026 – Present

- Developed real-time network monitoring portals with Django and FastAPI, delivering centralized visibility into the health and status of 200+ network devices.
- Integrated a local LLM (Ollama) with an MCP server to enable AI-driven device health checks through a conversational chatbot, cutting manual diagnostics by 50%.
- Engineered programmatic device management with Paramiko, Netmiko, and related libraries across 5+ multi-vendor environments.
- Automated network configuration and operational workflows using Python and Bash, reducing manual effort and cutting deployment time by 40%.
- Scheduled automated monitoring tasks, including hourly dashboard snapshots pushed to team chat, improving issue detection and reducing response time.

Team Lead | DevOps & Full Stack Developer

Metasense Technologies LTD – Pakistan



June 2022 – Present

- Developed scalable full-stack web applications using React.js, Node.js, and Python for secure, high-performance enterprise and SaaS platforms.
- Integrated AI-driven automation into backend systems using Python and cloud services to enhance data processing and operational efficiency.
- Built Python and Bash automation scripts to streamline deployments, system maintenance, and operational workflows.
- Designed and managed AWS cloud infrastructure (EC2, S3, Load Balancers, CloudFront, WAF) to ensure high availability, scalability, and cost efficiency.
- Containerized and deployed applications using Docker and Kubernetes to support resilient, cloud-native architectures.
- Implemented CI/CD pipelines with GitHub Actions, automating deployments across Docker and Kubernetes environments.

TECHNICAL SKILLS

• Programming Languages

- Python, JavaScript, TypeScript, PHP, Java, C++, Bash, SQL

• Frameworks & Libraries

- React.js, Next.js, Node.js, Express.js, Django, Flask, FastAPI, Laravel, Svelte, Tailwind CSS, Celery, Pydantic

• Network Automation & Engineering

- Netmiko, Paramiko, NAPALM, Nornir, NetBox, SNMP, YAML, REST APIs

• AI, Machine Learning & Data Analytics

- OpenAI APIs, LLMs, Ollama, MCP (Model Context Protocol), LangChain, RAG pipelines, scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Power BI, Excel

• Databases

- PostgreSQL, MySQL, MongoDB, Redis, Supabase, InfluxDB, NoSQL

• Cloud & DevOps

- AWS (EC2, S3, CloudFront, WAF, Load Balancer), Firebase, Kong API Gateway, Kubernetes, Docker, CI/CD, GitHub Actions, GitLab CI, Nginx

• APIs & Integrations

- Stripe, RevenueCat, Kong API Gateway, REST APIs, OpenAI APIs, Postman

• Monitoring & Observability

- Grafana, Prometheus, CloudWatch, Loki

• Productivity & Collaboration

- Jira, Monday.com, Notion, Linear, Discord, Slack, Postman

CERTIFICATIONS



Meta Frontend Development Specialization



Google IT & Python Automation

PROJECTS

March 2026 - May 2026

Saudi Energy Hajj Monitoring SPA

DevOps | Full Stack & Automation Engineer

- Built a FastAPI backend leveraging Paramiko to establish SSH connections across all network devices, executing remote commands to monitor CPU and memory utilization, internet usage, and WAN throughput in real time.
- Designed a clean, branded monitoring dashboard in Next.js and Tailwind CSS with light/dark mode support, presenting device meters, status cards, and key network insights in a clear, at-a-glance layout.
- Used FastAPI, Paramiko, NextJS, Tailwindcss

August 2025 - Present

Story Moments, A bereavement Services Mobile App - London, UK Based

Team Lead & DevOps | Backend Developer

- Built and improved backend APIs for a mobile app, making sure data moved quickly, reliably, and securely between the app & the server.
- Designed and implemented CI/CD pipelines along with scalable cloud infrastructure, enabling the system to handle large volumes of API requests while supporting smooth, automated releases and deployments.
- Developed with Node.js, MongoDB, and AWS.

March 2024 - Feb 2025

Triform, An AI Based SaaS Platform - Stockholm, Sweden Based

Full Stack Developer

- Worked on an AI-based platform where businesses can create and run smart automated tools (AI agents, serverless functions) without managing servers.
- Designed the system with pay-as-you-go usage, so companies scale easily and only pay for what they use.
- Used Laravel, Svelte/React, MySQL, integration with vector databases and AWS Step Functions.

Feb 2022 - May 2023

Council, An AI Based University Recommendation System

MERN Stack & Python Developer

- Developed a web app that suggests the best-fit universities for students by learning from a custom dataset of preferences.
- Used RFS algorithm trained on a custom dataset to recommend ideal universities based on user preferences.
- Used MERN Stack and Python.

Feb 2025 - Present

Climate Tracker Initiative: An ESG data insights platform - Sweden Based

DevOps | Full Stack Engineer

- Built an AI-driven document retrieval pipeline: web-scraping bots downloaded relevant PDFs, indexed them into OpenAI vector storage for semantic search, and used LLM evaluation to surface the best matches to users.
- Implemented CI/CD on self-hosted AWS EC2 (load balancers, CloudFront, WAF, CloudWatch) for automated, scalable, and monitored deployments.
- Used Node.js, React, Supabase, Redis, OpenAI, and AWS.

June 2023 - Sept 2025

Kinterak, A bereavement Services Web App - London, UK Based

Team Lead & Full Stack Developer

- Built core modules from scratch business marketing pages, payments, customer dashboards, and an admin panel for a seamless user and admin experience.
- Built custom API endpoints with a hand-tailored database structure to communicate with the frontend.
- Set up and managed DevOps pipelines with automated deployments, CI/CD, and cloud infrastructure, enabling smooth releases and reliable scalability.
- Used Next.js, MongoDB, Stripe, and AWS.

June 2023 - Nov 2023

MyChat: Custom-trained GPT Chatbot - Madrid, Spain Based

NextJS & Python Developer

- Developed a custom-trained AI chatbot using Llama Index and OpenAI
- API, designed to generate accurate responses from a provided dataset.
- Built the main application using MERN Stack and a Flask server to
- handle AI features.

Nov 2023 - Jan 2024

ToBre, AI Based Card Generation - Chicago, US Based

Frontend ReactJS Developer

- Built a web app that creates personalized greeting cards based on user
- Custom trained AI model which generates the card model.
- Used MERN Stack, and integrated a Flask server for AI scripts.

EDUCATION

FAST NUCES, PAKISTAN

- Bachelors in Computer Science
- CGPA: 3.46
- Silver Medalist

JAWAHIR AL-RIYADH INT. SCHOOL, RIYADH, KSA

- O - Levels
- A - Levels

LANGUAGES

- English
- Urdu