Muhammad Ali

Software Engineering Student

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SUMMARY

AI Automation Engineer and Full-Stack Developer specializing in Python/FastAPI, React/Node, and LLM-powered workflows. Shipped microservices and dashboards that increased job-queue throughput by 25% and reduced booking errors by 35%. Agile collaborator with CI/CD experience (GitHub Actions) delivering reliable, scalable features fast.

Early-career software engineer focused on AI-driven automation and web platforms. Built chatbots and internal support flows using OpenAI APIs/LangChain; implemented secure auth (JWT) and microservices with Docker. Known for measurable impact on reliability, speed, and user experience.

Education

BS Software Engineering

FAST-NUCES (National University of Computer and Emerging Sciences), Islamabad —2022 – Present (Expected 2026)

 Relevant Coursework: Data Structures & Algorithms, Database Systems, Operating Systems, NLP,DEVOPS, Web Engineering.

 SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Frontend: React, Next.js

Backend: Node.js, Express, FastAPI

Databases: PostgreSQL, MySQL, MongoDB

AI / ML / Automation:

- OpenAI APIs, LangChain, Hugging Face Transformers
- NLP, LLMs, RAG (Retrieval-Augmented Generation)
- Prompt Engineering, Generative AI, Predictive Workflows
- Automation Pipelines, n8n

DevOps / Deployment: Docker, Git, GitHub Actions, CI/CD

Tools / Project Management: Jira, SonarQube, Slack, Trello

Testing: Pytest (Python), Jest (JavaScript/TypeScript)

EXPERIENCE

AI Automation Developer   07/2025 - Present
HatchWorks (Remote)

- Developed **LLM-powered automation workflows** (OpenAI, LangChain) on FastAPI microservices, boosting job throughput by **25%**.
- Built **event-driven services** with Docker, task scheduling, and retries, cutting failed jobs by **30%** and alert MTTR by **20%**.
- Delivered a **React dashboard** for monitoring system health and task status, reducing diagnostic time by **40%**.
- Implemented **CI/CD pipelines** with GitHub Actions and SonarQube, enabling consistent daily deploys.
- **Tech:** Python, FastAPI, Celery, RabbitMQ, Docker, React, GitHub Actions, SonarQube, MySQL, MongoDB

Full Stack Developer   05/2025 - 07/2025
Devoura (Remote)

- Built and maintained scalable web applications using React, Express, and MongoDB.
- Integrated secure authentication with JWT and Worked in Agile sprints and used GitHub Actions for CI/CD deployment automation.

Graphic Designer & Creative Developer

02/2025 - 04/2025

Talenttack

- Establish functional or system standards to ensure operational requirements, quality requirements, and design constraints are addressed.
- Worked on visual content design, branding, and UI mockups for client websites and marketing campaigns.

Front Desk Officer

Islamabad

Fast University

01/2023 - 03/2023

- Enhanced visitor experience, resulting in a 15% increase in positive feedback scores.
- Assisted an average of 200 visitors daily, ensuring smooth and efficient operations.
- Cut average visitor wait time by 20% by implementing a new scheduling system.
- Improved customer satisfaction ratings by 25% by training staff in customer service excellence.

PROJECTS

Chatbot & AI Workflow Integration

Developed AI-driven internal support workflows using OpenAI APIs, LangChain, and FastAPI.

Web Applications & Dashboards

Built full-stack dashboards and responsive web apps for clients and university projects using React, Node.js, and MongoDB.

PROJECTS

Email & Ticket Automation

Python-based scripts for automated email responses and ticket management.

E-commerce Platform (Bazaar)

Designed responsive UI and backend APIs with payment gateway integration for a seamless shopping experience

Event Management & Ticketing Platform

Pioneered the development of an event platform using React, Node.js, and PostgreSQL; automated notifications and optimized ticket booking, decreasing booking errors by 35%.

Travel Booking Platform

Built a full-stack travel booking website with **Laravel, MySQL, and Bootstrap**, featuring bookings, payments, and admin management.