

Momin Ahmad

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SUMMARY

Computer Science student focused on backend development, DevOps, and CI/CD automation. Experienced in building Python-based backend systems with FastAPI, containerized applications, automated testing, and deployment workflows through internships and personal projects.

TECHNICAL SKILLS

Programming: Python, C++, SQL

Backend Development: FastAPI, REST APIs, MongoDB, MySQL

DevOps & Tools: PyTest, Docker, Kubernetes, Git, GitHub Actions, Linux, CI/CD

EXPERIENCE

Backend AI Engineering Intern

Jun 2026 – Oct 2026

FlyRank AI

Chicago, US

- Built a containerized CRUD API in FastAPI with database integration and authentication
- Integrated a third-party AI API in FastAPI, built a web scraper and PDF report generator
- Developed a background job pipeline and an AI decision flow with React Flow and Inngest

IT Infrastructure and Systems Intern

Jul 2025 – Aug 2025

National Aerospace Science and Technology Park Institute of Information Technology (NIIT)

Lahore, Pakistan

- Gained hands-on exposure to Windows/Linux server environments, provisioning, and virtualization
- Worked with Active Directory, domain management, and Group Policy for user/system access
- Built foundational networking knowledge (IP addressing, LAN/WAN, firewalls) relevant to cloud infrastructure

PROJECTS

DeployWatch V1

2026 – Present

Personal Project

Python, httpx, Rich, pytest

- Built a Python CLI tool to monitor uptime and latency of HTTP/HTTPS endpoints
- Logged checks to a history file and computed uptime percentage from monitoring data
- Wrote a pytest suite covering URL validation, domain parsing, and uptime logic

Intelligent CI/CD Pipeline Failure Predictor and Auto-Healer (FYP)

2026 – Present

Final Year Project

Python, scikit-learn, FastAPI, Docker, Kubernetes

- Designing an ML model to predict CI/CD pipeline failures in real time from GitHub Actions/GitLab CI data
- Building an LLM-powered log analyzer that explains failure root causes in plain English
- Deploying a Prometheus/Grafana observability dashboard, containerized with Docker, Kubernetes, and Helm

EDUCATION

Beaconhouse National University

Lahore, Pakistan

B.Sc. in Computer Science

2023 – 2027

Army Public School and College (Boys), Ordnance Road

Rawalpindi, Pakistan

Secondary and Higher Secondary Education

2018 – 2022

CERTIFICATIONS & TRAINING

AWS Certified Cloud Practitioner (CLF-C02) – Amazon Web Services – In Progress

CS50's Introduction to Programming with Python (CS50P) – Harvard University / edX – 2026

Google Cybersecurity Professional Certificate – Google / Coursera – 2024

FastAPI – The Complete Course (Beginner + Advanced) – Udemy – 2026

Docker and Kubernetes – Udemy – 2026

GitHub Actions and CI/CD – Udemy – 2026