

Hamid Khan

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Professional Summary

Backend-focused Software Engineering student with hands-on experience building scalable backend systems, REST APIs, and applied AI solutions. Strong foundations in data structures, system design, databases, and cloud deployment. Experienced in working with real users, production systems, and performance optimization.

Education

University of Engineering and Technology, Peshawar

Bachelor of Software Engineering

2024 – Present

CGPA: 3.0 / 4.0 (4th Semester)

FG Inter College, Batkhela

Higher Secondary School Certificate (HSSC)

2022 – 2024

Marks: 76%

Superior Lalazar Public School, Thana

Secondary School Certificate (SSC)

2020 – 2022

Marks: 91%

Experience

Software Engineer (Backend & Systems) — Admissions Express

2024 – Present

- Designed and developed backend services supporting 1,000+ active users.
- Built RESTful APIs using Python and Flask for production workloads.
- Implemented caching strategies to reduce API latency to 50ms.
- Deployed containerized applications using Docker on AWS (Linux servers).
- Monitored production systems and resolved performance bottlenecks.

AI Solution Intern (Applied AI) — Xvantech AI Solutions (USA)

2024

- Developed NLP-based pipelines for automation and analytics.
- Processed datasets containing 27,000+ records.
- Integrated AI models into backend APIs and workflows.

Web Developer — Z'vis Pixelon

2023 – 2024

- Built and maintained production web applications.
- Improved frontend performance and backend reliability.

Projects

Scalable URL Shortener

- Designed a read-heavy system using Redis for caching and PostgreSQL for persistence.
- Implemented rate limiting, TTL cleanup, and collision handling.
- Used CDN and load balancer concepts for global scalability.

LinguaCoach — Microsoft Imagine Cup

- AI-powered learning platform with persistent learner memory.
- Diagnosed user weaknesses using NLP-driven feedback loops.
- Built adaptive coaching features for aptitude and language tests.

Computer Vision Projects — NVIDIA

- Implemented crack detection using CNN-based models.
- Built image classification pipelines with GPU-accelerated training.

Technical Skills

Languages: Python, JavaScript, SQL

Backend: Flask, Django, Node.js, REST APIs

Databases: PostgreSQL, MySQL

Cloud & DevOps: AWS (EC2, S3), Linux, Docker

AI: NLP, Chatbots, Recommender Systems, Computer Vision

CS Fundamentals: Data Structures, Algorithms, System Design

Problem Solving & Algorithms

- Solved 200+ algorithmic problems on LeetCode across easy, medium, and hard levels
- Strong in arrays, strings, linked lists, stacks, queues, trees, graphs, and dynamic programming
- Applied algorithmic thinking to backend performance optimization

Achievements & Certifications

- Microsoft Imagine Cup — Participant
- NVIDIA — Deep Learning & Computer Vision
- Coursera — AI Engineering
- Coursera — Python for Machine Learning & Data Science
- Solved 200+ Data Structures & Algorithms problems