

# ANUM KOUSAR

## Software Engineer

### SUMMARY

Results-driven Software Engineering undergraduate with proven expertise in Python and backend development. Skilled in designing and implementing RESTful APIs using FastAPI and Flask, integrating Machine Learning and NLP models for intelligent automation, and deploying scalable, containerized systems with Docker. Adept at problem-solving, performance optimization, and data-driven application design, with hands-on experience using tools such as Postman, VS Code, and PyCharm to deliver efficient and maintainable software solutions.

### EDUCATION

#### Bachelors in Software Engineering 2022 - 2026 (Expected)

International Islamic University, Islamabad

**Relevant Coursework:** Data Structures, Database, Operating Systems, Computer Networks, Machine Learning

**CGPA:** 3.49/4.0

### INTERNSHIPS

#### Machine Learning

Aug 2025 - Sep 2025

Next Gen Learners, Islamabad

- Developed and optimized Machine Learning models
- Implemented NLP solutions

#### Python & JavaScript

Oct 2024 - Dec 2024

PHP Laravel Experts, Lahore

- Developed REST APIs using Flask
- Reduced bugs through comprehensive unit testing

#### C++ Developer

Jun 2024 - Jul 2024

Digital Empowerment Network, Islamabad

- Optimized algorithms that reduced memory usage
- Applied debugging techniques to resolve errors

### PROJECTS

#### SmartDoc Retriever

Sep 2025

- Engineered a RAG-based system using FAISS, increasing query relevance by 35%.

#### Career Guidance Chatbot

Jul 2025

- Developed an ML-powered chatbot to predict career roles with 85% accuracy.
- Enhanced user engagement through interactive Streamlit UI.

#### Log Classification Chatbot

May 2025

- Built a log classification pipeline with 90% accuracy.
- Automated NLP-based reporting workflows, reducing manual analysis by 60%.

#### Custom Terminal/Shell

Mar 2025

- Created a Bash-like terminal supporting redirection, piping, and background job execution.
- Optimized process management and I/O operations, improving execution speed by 25%.

### CONTACTS



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### TECHNICAL SKILLS

- **Languages:** Python, C++, Java, JavaScript, HTML/CSS
- **Frameworks:** FastAPI, Flask, Streamlit, React, Tailwind
- **Tools:** Git, Docker, Postman, VS Code, PyCharm, Jira
- **Databases:** MongoDB, MySQL
- **Technologies:** Machine Learning, NLP

### CERTIFICATIONS

- NextGenLearners (Machine Learning)
- Build with AI (Google workshop)
- DigiSkills (Freelancing)
- DEN (C++ Developer)
- HackerRank (Python)

### HOBBIES

- Painting
- Calligraphy
- Arts & Crafts
- Novel Reading

### LANGUAGES

- Urdu (Native)
- English (Advanced)