

ATHAAR NAQVI

AI & Backend Engineer | CS Graduate '26 | FAST-NUCES, Islamabad

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PROFILE

Final-year CS student at FAST-NUCES specialising in AI, NLP, and backend systems, with 2+ years of industry experience at xFlow Research Inc. Delivered production Go/Python backends, CI/CD pipelines, and AI-powered network automation. Three-time Dean's List honouree and Bronze Medal recipient. Seeking a software or AI engineering role to build scalable, intelligent systems.

EDUCATION

B.Sc. Computer Science — FAST-NUCES, Islamabad

Expected 2026

Focus: NLP • Generative AI & Agentic Systems • Machine Learning • Software Architecture | **Dean's List (3x) • Bronze Medal**

WORK EXPERIENCE

Teaching Assistant — AI for Product Dev — FAST-NUCES

Feb 2026 – Jun 2026

- Facilitate lab demos, mark assessments, and mentor students on AI/ML project development.

Teaching Assistant — Theory of Automata — FAST-NUCES

Aug 2025 – Jan 2026

- Managed course folder, graded assignments, and supported 100+ students with queries.

Open Source Developer — xFlow Research Inc.

Sep 2025 – Apr 2026

- Built applications integrating OpenSearch for real-time data indexing, querying, and analytics.

SONiC Intern — xFlow Research Inc.

Jun 2024 – Sep 2025

- Developed Go-based backend services for a SONiC networking product; improved API reliability and reduced latency.

Development Intern — xFlow Research Inc.

Sep 2023 – May 2024

- Designed local CI/CD pipelines (Docker, YAML, Ansible) to automate SONiC build and test workflows.

Software Intern — xFlow Research Inc.

Jun 2023 – Aug 2023

- Built a Python SIP chat application; gained hands-on expertise in TCP/IP and the SIP protocol stack.

PROJECTS

★ **FYP: Intelligent Network Design Automation (INDA)** (LLMs • RAG • NLP • GNS3 • Ansible • YAML • Python)

Converts natural-language topology descriptions and network diagrams into fully configurable, testable GNS3 network topologies via an LLM-driven multi-agent pipeline.

Project Montage — AI Animated Video Generator (LangGraph • Text2Video • DashScope • FastAPI • React) End-to-end pipeline: text prompt → animated movie in MP4, with NL post-production editing and SQLite version history.

AI Interview Simulator (FastAPI • Ollama • LLaMA 3.2 • JS) Mock interview web app with adaptive difficulty, 4-dimension scoring, dynamic timer, voice input, and AI-generated report.

MERN Book Management System (MongoDB • Express • React • Node) Full-stack app with CRUD, authentication, and book organisation.

Hotel & Gym Management Systems (Java/JavaFX/SQL • C#/.NET/MySQL) Desktop apps for bookings, billing, and membership with role-based auth and database integration.

Multithreaded Pacman, SpaceShooter & Tetris (C++ • OOP • Mutex) Concurrent Pacman with thread synchronisation; arcade games using inheritance and polymorphism.

TECHNICAL SKILLS

Languages: Python • Go • C/C++ • Java • C# • JavaScript (React • Node • Express) • SQL • HTML/CSS **AI/ML:** LLMs • LangChain • LangGraph • RAG • NLP • ML • Groq • Ollama

Infra & DevOps: Docker • CI/CD • Ansible • YAML • GNS3 • OpenSearch • MongoDB • FastAPI • SQLite **Soft Skills:** Leadership • Project Management • Problem Solving • Teamwork

ACHIEVEMENTS & ACTIVITIES

• Merit-Based Scholarship (College) • Dean's List of Honour (3x) • Bronze Medal, FAST-NUCES • Organised seminar: "Work Ethics & Professionalism" by Ashok Malani (California, US)