

Abdullah Adnan

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EDUCATION

FAST – NUCES

Bachelor of Science in Software Engineering

Islamabad, Pakistan

Aug. 2023 – May 2027 (Expected)

- **Relevant Coursework:** Object-Oriented Programming, Data Structures & Algorithms, Database Management Systems, Operating Systems, Software Design & Architecture

PROFESSIONAL SUMMARY

I am a 4th-semester Software Engineering student at FAST-NUCES with practical experience in backend and full-stack development using Java, Python, Flask, and SQL. I focus on writing clean code for layered desktop applications, graph-based C++ simulations, and web platforms. Seeking a backend internship primarily to learn from senior engineers, grasp industry standards, and contribute my foundational skills to real-world projects.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C#, JavaScript, HTML/CSS

Frameworks & Libraries: SFML, Flask, JavaFX, .NET

Databases: Microsoft SQL Server, SQLite, MySQL

Developer Tools: Git, GitHub, IntelliJ IDEA, VS Code, Visual Studio,

Core Concepts: RBAC, OOP, GRASP & GoF Design Patterns, DSA, Layered Architecture

PROJECTS

BOGO | *Java, JavaFX, JDBC, MS SQL*

Feb. 2025 – May 2025

- Developed a desktop bus transport navigation app solving the absence of any digital public transit guide for new commuters
- Enforced a strict 5-layer architecture (UI → Controller → Service → Domain → Repository) applying GRASP and GoF design patterns throughout
- Built DSA-driven map construction and pathfinding modules for real-time route and stop resolution across the network
- Designed 2-role access: Admins manage stops, routes, and drivers; Drivers view daily routes and submit logged issue reports through the portal

Ocean Route Nav | *C++, SFML, DSA*

Nov. 2024 – Dec. 2024

- Built a maritime route navigation system in C++ with SFML, loading real-world ports and maritime routes from a file-based database onto a rendered world map
- Modeled the port network as a weighted graph; implemented BFS, Dijkstra, and A* for optimal pathfinding using real cost and distance data
- Simulated port docking with queues and multi-port voyages with linked lists; animated live ship movement across computed routes in SFML

Flake | *Python, Flask, SQLite, HTML/CSS, JavaScript*

Sep. 2024 – Dec. 2024

- Built a unified university portal consolidating attendance, grades, course registration, timetable, and classroom management into one authenticated platform
- Implemented 3-role RBAC (Student, Teacher, Admin) with session-based auth; each role exposes a distinct, permission-controlled feature set
- Developed an internal mail system for Student, TA, Teacher, and Admin communication, and automated semester-based course enrollment

SOFT SKILLS

- Communication
- Team Work
- Time Management