

Syed  
Muhammad Ali  
Naqvi

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Highlights

FULL-STACK DEVELOPER

# Syed Muhammad Ali Naqvi

BSCS Student · FAST University · Educator · Mentor · Developer

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## Professional Snapshot

- **16 University Projects:** Full-stack applications, systems programming, databases, algorithms
- **Multiple Public Repositories:** Educational resources, learning hubs, and portfolio platforms
- **Core Stack:** JavaScript, React, Node.js, C++, Python, SQL, MongoDB, MySQL
- **Focus Areas:** Full-stack engineering, product development, and technical mentorship
- **Education:** FAST-NUCES, BSCS (8th Semester)
- **Teaching Support:** Mentoring, curriculum guidance, and student project assistance

## Contact

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## Technical Skills

## Languages

C/C++ (Advanced), Java (Intermediate), Python (Advanced), JavaScript (Advanced), SQL (Intermediate), x86 ASM (Intermediate)

## Web & Backend

Node.js (Advanced), Express (Advanced), React (Advanced), Socket.IO (Intermediate), REST APIs (Advanced), MERN (Advanced)

## Databases

Oracle (Intermediate), MongoDB (Advanced), MySQL (Advanced)

## Tools

Git/GitHub (Advanced), Postman (Advanced), VMware (Intermediate), Kali Linux (Intermediate), Packet Tracer (Intermediate), R + Shiny (Beginner-Intermediate)

## AI-Assisted Development

GitHub Copilot (Advanced), Claude AI (Intermediate), Prompt Engineering (Advanced)

## Languages

- Urdu — Native
- English — Fluent
- Punjabi — Conversational
- Arabic — Basic
- Spanish — Learning

## Professional Summary

BSCS student at FAST University (8th Semester) with hands-on expertise in full-stack web development, systems programming, and data-driven applications. Combines strong technical foundations with a genuine passion for teaching and mentoring students across school, college, and university levels.

## Education

### Bachelor of Science in Computer Science (BSCS)

FAST-NUCES, Chiniot-Faisalabad Campus · 2022–2026

Focus: Web Engineering, Systems Programming, Databases, Networks, AI Tools

## Experience

### Hostel Teacher & Warden · 2022–Present

FAST University Hostel, Chiniot-Faisalabad

- ★ Mentored and supported 20+ resident students each term on academics, routines, and growth planning
- ★ Ran 2–3 peer-learning and guidance sessions weekly to improve consistency in coursework execution

### CS Educator (School & College Level) · 2022–Present

Local Private Educational Institution

- ★ Taught 100+ students across school and college levels in programming fundamentals, OOP, and problem-solving
- ★ Delivered recurring remedial sessions that improved assignment completion and exam readiness outcomes

### Peer Mentor & Informal Teaching Assistant · Ongoing

FAST University

- ★ Produced 15+ structured learning guides and project planning notes for junior students
- ★ Provided 1:1 and small-group mentoring on full-stack and systems topics across multiple semesters

## Selected Projects

### AutiSmart (FYP)

React · Node.js · MongoDB · AI Multimodal Support

AI-based ASD detection and therapy platform with multimodal analysis, emotion recognition, adaptive therapy recommendations, interactive therapy games, and automated progress reporting.

### ECommerce Platform

MERN Stack

Full-stack e-commerce application with authentication, cart management, and real-time components.

## Compiler Project

Lex/Yacc · C · Python

Multi-stage compiler with lexer, parser, semantic checks, and code generation workflow.

## Snake Game (Assembly)

x86 NASM Assembly

Low-level game with manual memory handling and interrupt-driven controls.

## Chess Game (Multiplayer)

Node.js · Socket.IO

Real-time multiplayer chess with synchronized game state via WebSockets.

## P2P Communication System

React · Node.js

Peer-to-peer architecture with real-time messaging and file sharing support.

## Bus Schedule Optimizer

Python · Pygame · Operations Research

Algorithm-driven transport optimization model applied to practical scheduling constraints.

## Academic Portfolio

**University Coursework Repository** — Separate archive containing 16 implementations (5 standout + 11 supporting) across systems programming, networking, database design, compiler construction, algorithms, data structures, and games. All coursework documented with domain-level categorization.

**Private Case Studies** — Healthcare and education platforms (AntiSmart, ClinicOS, SchoolIEP) maintained with professional documentation describing architecture, workflows, and outcomes while preserving code privacy during active FYP development.

## Academic Leadership

- ★ 16 university projects published and documented across major CS domains
- ★ Mentored 20+ students through technical learning roadmaps and project guidance
- ★ Recognized for reliability, discipline, and structured problem-solving approach
- ★ Built portfolio focused on practical engineering quality and clear documentation

## Educational Resource Platforms (Live)

- ★ [University Course Projects Hub](#) — Academic project depth and implementation references
- ★ [Web Development Learning Hub](#) — Structured curriculum and guided developer pathway
- ★ [High-Impact Student Projects Hub](#) — 58+ practical project guides and interview resources
- ★ [FAST-NUCES Resources Hub](#) — Course and semester support resources
- ★ [EduCore Open Learning Hub](#) — 400+ curated educational links for broader student support

Want to collaborate or explore more work?

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