

Alyan Shahid

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EDUCATION

National University of Sciences and Technology <i>Bachelor of Software Engineering (5th Semester Completed) CGPA: 3.25</i>	Islamabad, Pakistan Expected 2027
Army Public School DHA I <i>Intermediate (F.Sc.) Computer Science (A1: 892/1100)</i>	Rawalpindi, Pakistan Aug. 2023
Army Public School Fort Road <i>Matriculation Computer Science (A1: 1042/1100)</i>	Rawalpindi, Pakistan Jul. 2020

PROJECTS

FloodSense Flood Monitoring System <i>React, Supabase, Leaflet API, Node.js</i> github.com/alyan101/river-guard-pk	Dec. 2025
– Developed a real-time dashboard visualizing hydrological data for 80+ geolocated sensors across Pakistan using the Leaflet API and Recharts.	
– Integrated Supabase for backend cloud storage and the OpenWeatherMap API for search-triggered live weather tracking.	
– Utilized synthetic datasets to simulate extreme flood scenarios, ranking regions by severity through a custom analytics engine built in Node.js.	
Tetris Game Group Project <i>C++, SFML</i> github.com/alyan101/tetris_game	Aug. 2023
– Designed and developed a Tetris clone with 7 Tetromino types, accurate rotation logic, and collision detection.	
– Implemented a dynamic scoring system, next-piece preview, and integrated sound effects using SFML's audio module.	
– Packaged a functional EXE with complete assets for modular distribution.	
Java Quiz Application <i>Java, Swing</i> github.com/alyan101/QuizProject	Jul. 2023
– Built a GUI-based desktop quiz application with login screen, quiz rules, and score display using Java Swing.	
– Utilized arrays for data storage to create a lightweight application without external database dependencies.	
– Implemented comprehensive answer validation logic and automatic score calculation.	
Booking Management System <i>Java, MySQL</i>	Jul. 2023
– Built an Airbnb-style booking platform implementing relational database integration and automated booking operations.	
– Designed an efficient database schema in MySQL to manage complex user and property data relationships.	
CPU Scheduling Simulator <i>Python, Tkinter</i>	Jun. 2023
– Built a graphical simulator to visualize various CPU scheduling algorithms with real-time performance output.	
– Implemented multiple scheduling techniques using Python and Tkinter for educational visualization.	

TECHNICAL COURSES

Fundamentals of Programming, Object Oriented Programming, Data Structures and Algorithms, Database Systems, Operating Systems, Software Design and Architecture, Software Engineering, Machine Learning, Software Construction, Quantum Computing, Cloud Computing

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, SQL, Python, C/C++, Java, HTML/CSS

Frameworks: React, Node.js, Express.js, Tailwind CSS, WordPress, Tkinter, SFML

ML & Libraries: TensorFlow, PyTorch, Scikit-learn, Recharts, Leaflet.js

Developer Tools: Git, GitHub (Version Control), Supabase, MySQL, Figma, Visual Studio, VS Code