

# Alyan Shahid

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## EDUCATION

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

## PROJECTS

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<b>FloodSense   Flood Monitoring System</b>   <i>React, Supabase, Leaflet API, Node.js</i> <a href="https://github.com/alyan101/river-guard-pk">github.com/alyan101/river-guard-pk</a>	Dec. 2025
<ul style="list-style-type: none"><li>– Developed a real-time dashboard visualizing hydrological data for 80+ geolocated sensors across Pakistan using the Leaflet API and Recharts.</li><li>– Integrated Supabase for backend cloud storage and the OpenWeatherMap API for search-triggered live weather tracking.</li><li>– Utilized synthetic datasets to simulate extreme flood scenarios, ranking regions by severity through a custom analytics engine built in Node.js.</li></ul>	
<b>Tetris Game Group Project</b>   <i>C++, SFML</i> <a href="https://github.com/alyan101/tetris_game">github.com/alyan101/tetris_game</a>	Aug. 2023
<ul style="list-style-type: none"><li>– Designed and developed a Tetris clone with 7 Tetromino types, accurate rotation logic, and collision detection.</li><li>– Implemented a dynamic scoring system, next-piece preview, and integrated sound effects using SFML's audio module.</li><li>– Packaged a functional EXE with complete assets for modular distribution.</li></ul>	
<b>Java Quiz Application</b>   <i>Java, Swing</i> <a href="https://github.com/alyan101/QuizProject">github.com/alyan101/QuizProject</a>	Jul. 2023
<ul style="list-style-type: none"><li>– Built a GUI-based desktop quiz application with login screen, quiz rules, and score display using Java Swing.</li><li>– Utilized arrays for data storage to create a lightweight application without external database dependencies.</li><li>– Implemented comprehensive answer validation logic and automatic score calculation.</li></ul>	
<b>Booking Management System</b>   <i>Java, MySQL</i>	Jul. 2023
<ul style="list-style-type: none"><li>– Built an Airbnb-style booking platform implementing relational database integration and automated booking operations.</li><li>– Designed an efficient database schema in MySQL to manage complex user and property data relationships.</li></ul>	
<b>CPU Scheduling Simulator</b>   <i>Python, Tkinter</i>	Jun. 2023
<ul style="list-style-type: none"><li>– Built a graphical simulator to visualize various CPU scheduling algorithms with real-time performance output.</li><li>– Implemented multiple scheduling techniques using Python and Tkinter for educational visualization.</li></ul>	

## TECHNICAL COURSES

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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

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**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