

Shehzain Hassan

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SUMMARY

Computer Science graduate with a strong foundation in modern software development and problem-solving. Skilled in full-stack development with core expertise in JavaScript, TypeScript, React, and Node.js, alongside practical exposure to DotNet, and Python. Experienced in designing and building scalable, real-time SaaS-style applications with clean code, secure architectures, and efficient database design. Comfortable working across the stack, from micro services and REST APIs to intuitive frontends and cloud integration. Highly motivated to contribute to BOP's M.T. Technology Program by applying hands-on development experience, adaptability, and a continuous learning mindset.

EDUCATION

Bachelor of Science in Computer Science

FAST - National University of Computer and Emerging Sciences • 3.29/ 4.00

- Dean's Honor List | Strong foundation in Web Architecture, Databases, OOP, Algorithms.
- Led multiple Agile team projects, shipping high-quality software efficiently.

Lahore, Pakistan

2020 - 2024

A-Level

Lahore Grammar School, Johar Town

- Achieved Straight A's

Lahore, Pakistan

2017 - 2019

SKILLS

Soft Skills: Problem-solving, Analytical Thinking, Effective Communication, Teamwork, Adaptability

Languages & Frameworks: JavaScript (ES6+), TypeScript, C#, Python, Java, React, Next.js, Node.js, Express.js

Databases: PostgreSQL, MongoDB, Firebase, SQL Server

Core Strengths: OOP, REST APIs, Authorization, Authentication, Database Optimization

EXPERIENCE

Systems Limited

Software Engineer Intern

- Developed B2C web applications using React (Next.js), Node.js (Express.js), MongoDB, improving performance and scalability.
- Designed JWT and Firebase Authentication, reducing unauthorized access attempts by 40%.
- Contributed to team-based code reviews, refining code quality and aligning implementation with requirements by utilizing Git and best practices.
- Practiced end-to-end software development: from feature ideation to deployment and testing.

Lahore

October 2024 - January 2025

FAST NUCES

Front Desk Officer

- Streamlined office workflows by coordinating with 5+ departments, enhancing inter-team communication and efficiency.
- Demonstrated adaptability and developed strong organizational and time management skills applicable to project coordination.

June 2023 - August 2023

PROJECTS

BoxCars - Car Auction & Finance Platform

Freelance • [boxcars.live](#)

- Designed and developed a real-time SaaS platform for car auctions and vehicle financing using a multi-service architecture.
- Built the backend with C# (.NET Core) managing auction workflows, bid processing, and 30+ RESTful API endpoints.
- Built an ML-based recommendation engine with scikit-learn, deployed as a FastAPI microservice to deliver personalized vehicle suggestions.
- Implemented SignalR for real-time bid updates and notifications, simulating event-driven communication in a transactional environment.
- Created a responsive frontend with React/Next.js and TypeScript, integrating Bootstrap for seamless cross-device UI.
- Deployed backend microservices using Docker on Railway, enabling cloud deployment and simplified service management.

April 2025 - Present

ProTrackr – Final Year Project Management System

Final Year Project

- Built a full-stack web application using React, Node.js, and MongoDB, serving over 500+ students and faculty.
- Used MongoDB to design project workflows, enabling flexible document storage for submissions, evaluations, and status tracking.
- Implemented role-based access control with Firebase Authentication, reducing manual administrative load by 30%.

September 2023 - June 2024