

Hassan Abdul Sattar

Software Engineer · Full-Stack & Backend

📍 Islamabad, Pakistan · Remote-ready ✉️ hassan.as.swe@gmail.com 🔗 [linkedin.com/in/hassan-sattar-a99862260](https://www.linkedin.com/in/hassan-sattar-a99862260) 📄 github.com/Hassan-301

SUMMARY

Software Engineer (BS Software Engineering, FAST-NUCES 2026, **Dean's List**) with backend API experience on **government digital platforms at NITB**. I build full-stack web applications with **React, Node.js/Express, FastAPI and Laravel** on SQL and NoSQL databases, and ship them with **Docker, GitHub Actions and AWS**. A QA background keeps my code testable, secure and maintainable.

TECHNICAL SKILLS

Languages	JavaScript, Python, PHP, SQL, C#, Java, C++
Backend	Node.js, Express.js, FastAPI, PHP Laravel, REST API design, MVC
Frontend	React.js, HTML5, CSS3, Tailwind CSS
Databases	PostgreSQL, MySQL, SQL Server, MongoDB, Redis
Cloud & DevOps	AWS (EC2, VPC, ELB, Auto Scaling, IAM, CloudWatch), Docker, Kubernetes, GitHub Actions, CI/CD
Engineering	OOP, design patterns, software architecture, Agile/Scrum, API testing, Git, Jira, Postman

EXPERIENCE

Software Engineering Intern (Backend) <i>National Information Technology Board (NITB), Government of Pakistan</i>	Jul 2025 – Aug 2025 Islamabad
- Developed backend REST APIs in PHP Laravel for government digital platforms. - Contributed to architecture and design decisions for scalable services within cross-functional Agile teams.	
Lab Demonstrator: Data Structures & ICT <i>FAST National University of Computer & Emerging Sciences</i>	Sep 2025 – May 2026 Islamabad
Supported lectures and labs for 50+ students, mentoring them on data structures and programming fundamentals.	

PROJECTS

AutoValid: Automated Web Testing Platform FINAL YEAR PROJECT GitHub ↗	Aug 2025 – Jun 2026
Tech: React, Node.js, Express, Python, Playwright, PostgreSQL, Neo4j, MongoDB, ClickHouse, Redis, S3	
- Built a full-stack platform that crawls any web app from a URL, models it as a live state-flow graph, and runs generated tests, with a React dashboard for coverage heatmaps and defect reports. - Designed a multi-database backend: Neo4j (graphs), PostgreSQL (results), ClickHouse (analytics), Redis (queues), S3.	
SecureShield: End-to-End Encrypted Messaging & File Sharing GitHub ↗	Nov 2025 – Dec 2025
Tech: React, Node.js, Web Crypto API, IndexedDB	
Built a React/Node app with client-side hybrid encryption (RSA/ECC + AES-256-GCM) and authenticated ECDH key exchange.	
Highly Available Web Application on AWS	Apr 2026 – May 2026
Tech: AWS VPC, EC2, ELB, Auto Scaling, CloudWatch, IAM	
Deployed a multi-tier app in a custom VPC with Auto Scaling behind a load balancer, verified under simulated load.	
Kubernetes CI/CD Pipeline for a MERN E-Commerce App GitHub ↗	May 2025
Tech: Docker, Kubernetes, GitHub Actions, Docker Hub	
Containerized the frontend and backend as separate Kubernetes deployments. A GitHub Actions pipeline builds, pushes and redeploys on every push to main.	
Anjuman: Social Platform with Content Moderation GitHub ↗	Nov 2024 – Dec 2024
Tech: MongoDB, Express, React, Node.js, Tailwind CSS	
Built REST APIs and a React frontend for posts and pages, with an admin workflow that approves content before it goes live.	

EDUCATION

Bachelor of Science in Software Engineering <i>FAST National University of Computer & Emerging Sciences (FAST-NUCES)</i>	Aug 2022 – Jun 2026 Islamabad
Dean's List of Honour (Spring 2026). Focus areas: Software Development & Testing, Workflow Automation, Project Management.	

CERTIFICATIONS

AWS Cloud Web Application Builder · 2026	AWS Cloud Foundations · 2026
AWS Cloud Quest: Cloud Practitioner · 2026	DevOps Essentials · Coursera
Git & GitHub · Coursera	