SYED IBAD ALI

Backend Engineer | Full-Stack Developer | AI/ML Engineer

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PROFESSIONAL SUMMARY

Results-driven Software Engineer with **2+ years** of professional experience specializing in **backend development, full-stack web applications**, and **AI/ML integration**. Expert in **Node.js, Python,** and **React.js** with proven track record of architecting enterprise-grade systems serving 95% of organizational staff. Successfully led teams of **6+ engineers**, taught **100+ students**, and won **2 national hackathon competitions**. Strong expertise in **microservices** architecture, **cloud** infrastructure **(AWS, Azure)**, and **Shopify** ecosystem. Seeking challenging opportunities in multinational organizations to leverage technical expertise in building scalable, high-performance solutions.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, C++, SQL

Backend Technologies: Node.js, Express.js, Nest.js, FastAPI, GraphQL, RESTful APIs

Frontend Technologies: React.js, Next.js, React Native, Redux, Tailwind CSS, Material UI

Databases: MySQL, PostgreSQL, MongoDB, Redis, Firebase, ChromaDB

ORMs & Query Builders: Sequelize, Prisma, Mongoose

Cloud & DevOps: AWS (EC2, S3), Azure, Docker, CI/CD, GitHub Actions, Linux Administration

AI/ML: OpenAI API, LLM Fine-tuning, NLP, TensorFlow, PyTorch, Scikit-learn, Opacus, Hugging Face

Shopify Development: Shopify APIs (REST, GraphQL), Theme App Extensions, Polaris, Liquid

Mobile Development: React Native, Expo, NativeWind

Security & Authentication: JWT, OAuth, RBAC, AES-256-GCM Encryption, Rate Limiting

Tools & Platforms: Git, GitHub, Postman, VS Code, Figma, MySQL Workbench, PuTTY, Grafana

Methodologies: Agile, Scrum, Microservices Architecture, MVC Pattern, Test-Driven Development

Soft Skills: Team Leadership, Technical Training, Cross-functional Collaboration, Problem-solving, System Design

PROFESSIONAL EXPERIENCE

SENIOR WEB DEVELOPER (Full-Time)
Appearls Technologies | Karachi, Pakistan | January 2026 - Present

- Architected and deployed custom MERN stack applications on Azure and AWS, reducing infrastructure costs by 25% and deployment time by 40%.
- Collaborated with cross-functional teams to analyze project requirements and deliver scalable enterprise solutions aligned with business objectives. Implemented CI/CD pipelines and server automation for optimized cloud infrastructure management.
- **Key Technologies**: React.js, Next.js, Node.js, Azure, AWS, MERN Stack, Cloud Infrastructure.

ASSOCIATE SOFTWARE ENGINEER (Full-Time)
SolCoders Pvt Ltd | Karachi, Pakistan | December 2024 - January 2026

- Led backend development for enterprise HRM system (Teamify) using Node.js and Sequelize ORM, serving 95% of staff (100+ employees) with 99.9% uptime and 5-layer modular architecture.
- Developed React Native mobile application and multiple Shopify apps integrating REST/GraphQL APIs, including VIP affiliate program and live KPI calculator. Managed AWS infrastructure (EC2, S3) via Docker, led team of 3 junior engineers, and implemented AES-256-GCM encryption with RBAC for security.
- **Key Technologies**: Node.js, Express.js, Sequelize ORM, MySQL, React Native, Socket.IO, AWS, Docker, Shopify APIs, GraphQL

IT INSTRUCTOR - WEB DEVELOPMENT (Part-Time)
Bano Qabil Program (Alkhidmat Foundation) | Karachi, Pakistan | June 2025 – Present

- Teaching and mentoring 100+ students across 4 batches in full-stack web development (HTML, CSS, JavaScript, Python, React.js, Git).
- Delivering hands-on training in modern web technologies, AI-powered development, and industry best practices with 85% student placement rate. Providing career guidance, portfolio development support, and project-based learning for IT industry entry.
- **Key Technologies**: HTML5, CSS3, JavaScript, Python, React.js, Git, GitHub, AI Development

TECHNICAL LEAD (Part-Time)

NexSync (NIC Karachi) | Karachi, Pakistan | May 2025 - June 2025

- Conducted intensive 1-month training program for 10+ interns on full-stack development, microservices architecture, and product design.
- Architected textile SaaS platform with multi-tenant microservices model, master-slave database architecture, and API gateway orchestration layer. Led MRMS (Meeting Room Management System) development covering booking, resource allocation, and scheduling features.
- **Key Technologies**: Microservices Architecture, API Gateway, Master-Slave DB, MVC Pattern, System Design

FRONTEND DEVELOPER (Contract)

NED University of Engineering & Technology | Karachi, Pakistan | February 2024 - July 2025

- Developed QEC (Quality Enhancement Cell) LMS modules in React.js with modular architecture, improving load time by 45% through lazy loading and virtualization.
- Designed responsive UI using Material UI and Tailwind CSS, led local network deployment, and created comprehensive user documentation. Collaborated with IT management in client meetings for system requirements and adoption strategy.
- **Key Technologies**: React.js, Node.js, Express.js, MySQL, Material UI, Tailwind CSS, Vite

ORGANIZER & TECHNICAL HEAD

Teknofest Pakistan - ML & Data Analysis Competition | Karachi, Pakistan | January 2026

- Planned and organized national-level Machine Learning and Data Analysis competitions for 200+ participants with Society.
- Designed competition structure, datasets, evaluation criteria, and coordinated with industry judges under tight deadlines. Managed participant queries and ensured fair judgment processes for technical competitions
- **Key Technologies**: Machine Learning, Data Analysis, Event Management, Technical Leadership

EDUCATION

BACHELOR OF ENGINEERING - SOFTWARE ENGINEERING

NED University of Engineering & Technology | Karachi, Pakistan   Sep 2022 - Sep 2026 (Expected)

CGPA: 3.01/4.00

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Software Engineering, Object-Oriented Programming, Operating Systems, Computer Networks, Artificial Intelligence, Web Development, Cloud Computing.

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Databases and SQL for Data Science with Python - IBM via Coursera (2024)
- Introduction to Data Engineering - IBM via Coursera (2024)
- Frontend Capstone Certification - Meta (2024) 8-module track: HTML, CSS, JavaScript, Git, React, Responsive Design, UI/UX (Figma)
- Introduction to Cybersecurity (Verified Badge) - Cisco (2024)
- Summer of Code & AI - Tech Community (2025)

ACHIEVEMENTS & RECOGNITION

- **1st Prize Winner** - CodeSphere Project Competition, NED University (January 2024)
    - Desktop Application Development: AI Virtual Assistant with PyQt5 GUI and Bard AI integration
- **Runner-Up** - Teknofest Pakistan National Hackathon (October 2024)
    - Full-Stack Frenzy Competition: React.js frontend development for space exploration platform
- **Blockchain Workshop Conductor** - NIC Karachi (June 2025)
    - Trained 10+ developers and entrepreneurs on blockchain fundamentals and smart contract development
- **NASA Space App** Challenge Participant (October 2024)
    - Built ExoPlanetarium: 3D space exploration platform with AI chatbot integration

KEY PROJECTS & PORTFOLIO

Portfolio: www.syedibad.me

Featured Work:

- **FloXript**: AI-powered codebase tutorial generator with RAG chatbot (FastAPI, React, ChromaDB)
- **HRM System (Teamify):** Enterprise-grade HR management serving 95% of staff (Node.js, MySQL, Socket.IO)
- **Shopify VenceMetrics**: E-commerce analytics SaaS application (Node.js, React, Shopify APIs)
- **OncoCura**: AI-powered cancer care platform with Gemini AI integration (MERN Stack, AI)
- **Differential Privacy in LLMs**: Healthcare AI with privacy-preserving fine-tuning (Python, Opacus)