

# Saad Amir

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## SUMMARY

Full-Stack Developer with 1+ year of experience building scalable backend APIs and web applications using NestJS, PostgreSQL, TypeScript, and React.

## EXPERIENCE

### Associate Backend Developer

#### MicroAgility

June 2025 – Present, Islamabad

- Developing NestJS + MongoDB backend for enterprise SaaS with modular architecture spanning HR, LMS, document management, and audit systems.
- Implementing REST APIs with JWT authentication, RBAC, file handling (GCS, Multer), input validation, logging, and centralized error handling.
- Working in Agile environment with cross-team collaboration; receiving hands-on training in GraphQL, multi-tenancy patterns, WebSockets, and microservices architecture (Node.js, Express, S3, Socket.IO).

### JavaScript Developer

#### NxtOf

January 2025 – April 2025, Islamabad

- Built web and mobile features for PropNerd, a real estate tokenization platform handling £500K+ in assets, using React Native and React.
- Developed secure APIs and responsive UIs with NestJS, GraphQL, and PostgreSQL, focusing on performance and scalability.
- Maintained and optimized core applications of NxtOf (a Web3 & AI solutions company) using TypeScript in a full-stack role.

### Full Stack Developer Intern

#### Futurenostics

July 2024 – September 2024, Islamabad

- Completed intensive full-stack development program with weekly technical assessments; built MERN stack applications using React, TypeScript, Chakra UI, and APIs with Axios and React Query.
- Built and managed backend systems with Express.js, MongoDB, and Mongoose, implementing data validation, RESTful APIs, and Git version control.
- Automated CI/CD pipeline using Docker, Kubernetes, Helm, and GitHub Actions for React application deployment.

### Teaching Assistant & Lab Demonstrator

#### FAST-NUCES

May 2023 – May 2024, Islamabad

- Assisted in teaching OOP (C++), Data Structures & Algorithms, and Software Design Analysis (UML, Java, Design Patterns) to 150+ students across multiple sections through lectures, lab sessions, and office hours.
- Guided 100+ students weekly in implementing algorithms, data structures, and OOP concepts, providing debugging and optimization support.
- Evaluated projects and assessments for 50+ students per semester, providing detailed feedback on code quality and software design.

## PROJECT

### Multi-Stage SaaS Backend (NestJS, PostgreSQL, TypeORM, GraphQL, Socket.IO, Cloudinary, Winston)

- Developed a production-grade **REST API** with JWT authentication (access + refresh tokens), role-based access control (RBAC), email verification, and password reset, ensuring secure user management; Implemented **database migrations, pagination, soft deletes, and file uploads** with Cloudinary; added centralized logging with Winston and API documentation with Swagger/OpenAPI.
- Extended the system to **GraphQL (Apollo Server)** with type-safe queries and schema-driven design for flexible client integrations.
- Integrated **real-time features** including chat, notifications, and event broadcasting using **Socket.IO (WebSockets)**.
- Architected a **multi-tenant SaaS platform**, isolating tenant data at the workspace level for scalability and security.
- Deployed on Render with **rate limiting, input validation**, and 90%+ unit/E2E test coverage.

### Fashion Recommendation Platform – MeriCloset (MERN Stack, TypeScript, Stripe, Google Gemini, BeautifulSoup)

- Built AI-powered platform with collaborative filtering, Gemini chatbot, and BeautifulSoup web scraping for product catalog (500+ products).
- Developed role-based portals (user, brand, admin) with Stripe payments, product comparison, wishlist, and JWT authentication.

## EDUCATION

### Bachelor of Computer Science

FAST-NUCES · Islamabad · 2025

### Higher Secondary School Certificate (HSSC) in Pre-Engineering

Roots International College · Islamabad · 2020

## CERTIFICATIONS

### AWS Academy Graduate – AWS Academy Cloud Foundations

Amazon Web Services (AWS Academy)

### AWS Academy Graduate – AWS Academy Cloud Web Application Builder

Amazon Web Services (AWS Academy)

## SKILLS

**Languages & Frameworks:** JavaScript, TypeScript, Java, C++, Python, C#, Node.js, NestJS, Express.js, Spring Boot, .NET

**Frontend Technologies:** React, Next.js, React Native, HTML5, CSS3, Chakra UI, Zustand, React Query, Tailwind CSS

**Databases & APIs:** PostgreSQL, MongoDB, TypeORM, Mongoose, GraphQL, REST APIs, JWT, bcrypt, RBAC

**DevOps & Tools:** Docker, Kubernetes, AWS, Git, GitHub Actions, CI/CD, Helm, MERN Stack, Microservices, WebSockets