

# M. Abdullah Zafar

Node.js Developer

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## Professional Summary

Results-driven Full Stack Developer with 3+ years of experience specializing in Node.js backend engineering, API development, and cloud-native applications. Proven track record in building scalable microservices, RESTful APIs, and real-time communication systems using WebSocket and Socket.IO. Skilled in MongoDB, PostgreSQL, and MySQL with expertise in database optimization and performance tuning. Experienced in deploying and maintaining production systems on AWS (EC2, S3) with Docker, Nginx. Adept at working in Agile/Scrum environments, delivering solutions that reduce system latency, improve scalability, and support high-traffic applications.

## Technical Skills

- Backend Development:** Node.js, Express.js, RESTful APIs, WebSocket, Socket.IO, JWT Authentication, Passport
- Frontend Development:** React.js, TypeScript, Redux, Material-UI, Bootstrap
- Databases:** MongoDB, PostgreSQL, MySQL, Database Design, Query Optimization
- Cloud & DevOps:** AWS (EC2, S3), Nginx, CI/CD, Unit Testing, Docker
- Other Technologies:** Blockchain Integration, Git, GitHub, GraphQL, Microservices
- Core Competencies:** Scalable Architecture Design, Performance Optimization, Code Review, Problem Solving

## Professional Experience

### Node.js Developer

AdvanturaLabs

March 2025 – September 2025

Lahore, Pakistan

- Developed and maintained backend systems for mobile and web applications, ensuring secure authentication and efficient database interactions.
- Collaborated with cross-functional teams to deliver scalable solutions and optimize cloud deployments on AWS EC2 with Nginx.
- Designed database schemas and implemented business logic in Node.js, improving performance and maintainability.

### Key Projects:

#### NovIt.ai - Idea Generator App for Content Creators

- Designed and implemented the backend for the mobile app, ensuring seamless interaction between AI models and MongoDB.
- Built secure authentication and authorization system using JWT and Passport.js.
- Optimized data flow between AI processing layer and database, reducing response time by 20%.
- Deployed and maintained the system on AWS EC2 with Nginx for scalability and reliability.

#### RacRally - Game Management Platform

- Developed backend infrastructure enabling individual players to create/join teams and participate in events.

- Implemented secure login and user session management using JWT authentication.
- Designed and optimized MongoDB schemas to support real-time team and event interactions.
- Managed deployment pipelines and ensured smooth scalability using AWS EC2 and Nginx.

**Node.js Developer**  
**Argon-tech**

April 2022 - March 2025  
Lahore, Pakistan

- Architected and developed backend infrastructure for multiple production applications, ensuring scalability and performance
- Implemented secure authentication systems using JWT and Passport.js
- Designed and optimized database schemas for both SQL and NoSQL databases
- Integrated real-time communication features using WebSocket and Socket.IO

#### **Key Projects:**

##### **Katana-Inu Game Launcher:**

- Developed robust backend system for NFT integration and real-time game state management

Implemented WebSocket communication for instant updates and player interactions

- Built responsive frontend using React.js with Redux for state management
- Utilized MongoDB for efficient data storage and retrieval
- Implemented real-time game statistics dashboard using Angular and Socket.IO
- Deployed and maintained application on AWS EC2 with Nginx

##### **Kwik Trust - NFT Marketplace:**

- Designed and implemented RESTful APIs for NFT marketplace functionality
- Created complex database schema in PostgreSQL for game mechanics and user interactions
- Integrated blockchain features for NFT validation and transactions
- Implemented secure user authentication and authorization system

##### **VITE - Blogging Platform:**

- Developed comprehensive backend system for content management and user interactions
- Built modern, responsive UI using Angular with Material Design components
- Implemented real-time article preview and editing using React Draft.js
- Integrated payment processing system based on article engagement metrics
- Created automated reward distribution system for authors and readers
- Utilized PostgreSQL for efficient content and user data management
- Implemented SEO optimization techniques resulting in 40% increase in organic traffic

## **Education**

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**BS Software Engineering**  
COMSATS University Islamabad

2018 - 2024  
Taxila, Pakistan