

# ABDULLAH SAFWAN

## Backend Engineer | Node.js Developer | Software Engineer

Results-driven Backend Engineer specializing in Node.js, TypeScript, and AWS-based architectures, with proven expertise in designing, building, and optimizing scalable, secure, and high-performance systems. Strong background in developing Self Contained (monolith architecture) cloud-native APIs, serverless applications, and microservices using modern frameworks and DevOps practices. Adept at collaborating across teams, driving technical excellence, and delivering robust digital products from concept to deployment. Open to relocation and international opportunities across EU, Middle East, Australia, Malaysia, and Singapore.

## CONTACT

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## CORE SKILLS

- Node.js
- TypeScript
- JavaScript (ES6+)
- Express.js
- Python
- Django
- AWS (Lambda, S3, EC2, RDS, CloudWatch, API Gateway)
- Serverless Framework
- Prisma ORM
- REST APIs
- MySQL
- PostgreSQL
- Microservices
- CI/CD
- Docker
- Kubernetes
- FFmpeg
- Media Streaming (RTMP, HLS)
- Git & GitHub Actions
- Linux/Unix CLI
- Agile/Scrum

## ACHIEVEMENTS

- Architected and designed media streaming infrastructure using AWS Media Services for real-time processing and archiving. (March 2023 – January 2024)
- Founded and managed a YouTube channel “TrickyTorials” focused on SEO & tech tutorials with 50K+ organic reach. (December 2017 – July 2019)

## EDUCATION

Bachelor of Engineering (B.E.) in Computer Systems Engineering Dawood University of Engineering & Technology (DUET), Karachi October 2022

## PROFESSIONAL EXPERIENCE

### Software Engineer | Diya Interactive

September 2024 – Present

- Architect and develop scalable B2C cloud-native applications using Node.js, TypeScript, Serverless Framework, and MySQL, ensuring performance, reliability, and maintainability.
- Optimized cloud infrastructure by reducing AWS SDK size by 24%, cutting lambda layer sizes by up to 77%, streamlining production packages by 21%, and improving build efficiency by 3%, resulting in faster deployments and reduced resource consumption.
- Implement event-driven microservices leveraging AWS Lambda, API Gateway, and CloudWatch, optimizing system scalability and cost efficiency.
- Collaborate closely with product managers and business teams to translate functional requirements into robust backend solutions and technical specifications.
- Drive code quality and performance optimization through unit testing, CI/CD pipelines, and peer code reviews using GitHub Actions.
- Integrate security best practices including data validation, authentication, and encryption, reducing vulnerabilities by 30%.
- Mentor junior engineers through code pairing, design reviews, and documentation, improving overall team productivity and backend code standards.

### Associate Software Engineer | Diya Interactive

January 2023 – August 2024

- Developed and maintained RESTful and GraphQL APIs using Node.js, Prisma ORM, and AWS Media Services, enabling real-time audio streaming and low-latency user experiences for thousands of concurrent users.
- Built scalable backend architecture for an audio streaming platform with load balancing and caching strategies to improve response times by 40%.
- Integrated cloud infrastructure components such as S3, EC2, and RDS for efficient data storage and media delivery.
- Partnered with cross-functional teams to design technical documentation, conduct sprint demos, and ensure timely project delivery aligned with business goals.
- Conducted research and proof-of-concept (PoC) studies for modernizing backend systems using TypeScript, and Docker.
- Led internal tech sessions and implemented coding standards, fostering a collaborative engineering culture and improving sprint velocity.

### Backend Intern | Diya Interactive

November 2022 – January 2023

- Designed and implemented CRUD APIs using Django Rest Framework, contributing to the foundation of a production-grade backend service.
- Built and tested live streaming pipelines using RTMP and HLS protocols, gaining practical exposure to scalable media distribution.
- Supported senior backend engineers in developing modular, reusable backend components for deployment on AWS EC2.
- Assisted in writing technical documentation, creating API schemas, and debugging production issues using CLI tools and Postman.
- Participated in agile ceremonies, including sprint planning and retrospectives, to gain hands-on experience with agile delivery processes.
- Shadowed senior developers to understand best practices in version control, CI/CD, and software lifecycle management.

## PROJECTS

### ERP & CRM System for Repair Services

- Designed and implemented a Node.js MVC ERP & CRM system for GPU repair workflows (bookings, queue management, technician assignment).
- Reduced manual processing time by 40% and improved traceability and service efficiency.

### PiHole DNS Filter – Raspberry Pi Deployment

- Configured a DNS Sinkhole to block unwanted traffic, improving network speed and cutting bandwidth usage by ~30%.

### Final Year Project: Student Performance Prediction using ML

- Built a machine learning model predicting academic performance using algorithms like SVM, LR, Ensembles, and MLP.

## PROFESSIONAL DEVELOPMENT

- Completed the McKinsey.org Forward Program (July 2025), gaining practical skills in problem-solving, digital collaboration, and leadership from McKinsey & Company.
- Earned the Artificial Intelligence Fundamentals certification from IBM (October 2025), demonstrating foundational knowledge of AI concepts, workflows, and real-world applications.
- Completed the AWS Elemental MediaLive Primer (April 2023), developing an understanding of cloud-based video processing and live streaming workflows on AWS.