



Muhammad Zohaib Malik


Backend Developer (NodeJs)

 LinkedIn

 GitHub

 Portfolio

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Education:

PMAS Arid Agriculture University, Rawalpindi

2025

Bachelor's in Computer Science

Technical Skills:

Languages: JavaScript, TypeScript

Backend Technologies: Node.js, Express.js

Databases: MongoDB, Redis

DevOps & Cloud: Docker, Nginx, Git, AWS (EC2, S3, IAM)

CMS: WordPress


Internship:

Quantam Communication (Onsite) *Web Developer*

- Worked on the company's personal website using WordPress.
- Developed backend functionalities of Admin Section of Inventory Management System.

Projects:

File Storage

 Source Code

- Built a secure **file storage system** with user-specific directories using **Node.js**, **Express.js**, **MongoDb** and **Redis**-based session auth.
- Integrated **AWS S3** for storing files and **CloudFront** for fast content delivery.
- Enforced a limit of **two active device logins per user** via Redis session tracking.
- Integrated **Login with Google** and **Login with GitHub** for seamless third-party authentication.
- Used **Zod** for type-safe validation of inputs and API payloads.
- Implemented **soft and hard delete** for users and their files.
- Implemented **storage plans using Stripe Payment gateway** for subscription-based file storage.
- Added **RBAC** with **Owner**, **Admin**, and **Manager** roles.

Airline Booking

 Source Code

- Built a scalable **microservices-based backend** for an airline booking system.
- Developed **Flight Service** for managing flights, routes, and availability.
- Created **Booking Service** for reservations and ticket management using **MongoDB transactions**.
- Enhanced performance with **mongoose indexing**.
- Used **Winston** for logging and **Zod** for request validation.
- Automated booking cancellation via a **cron job** after timeout.