

# Muhammad Zohaib Malik

## Backend Developer (NodeJs)

 LinkedIn

 GitHub

 Portfolio

 +92 332 5187445

 muhammadzohaibmalik10@gmail.com

### Education:

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**PMAS Arid Agriculture University, Rawalpindi**  
*Bachelor's in Computer Science*

2025

### Technical Skills:

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**Languages:** JavaScript, TypeScript

**Backend Technologies:** Node.js, Express.js

**Databases:** MongoDB, Redis

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

**CMS:** WordPress

### Internship:

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**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:

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#### 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
- Added **RBAC** with **Owner**, **Admin**, and **Manager** roles:
  - **Owner**: recover soft-deleted users, hard delete any user.
  - **Admin**: logout users, soft delete only.
  - **Manager**: logout users only.

#### 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.