

Muhammad Zohaib Malik

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Technical Skills:

Languages: JavaScript, TypeScript

Backend Technologies: Node.js, Express.js

Databases: MongoDB, Redis

DevOps & Cloud: Docker, Git, AWS (S2, S3)

Internship:

DevelopersHub Corporation (Remote)

[Source Code](#)

Backend Development Intern

- Successfully completed a six-week virtual internship focused on backend development.
- Implemented backend for an e-commerce application using Node.js and Express.js.

Projects:

File Storage

[Source Code](#)

- Built a secure **file storage system** with user-specific directories using **Node.js**, **Express.js**, and **Redis**-based session auth.
- Enforced a limit of **two active device logins per user** via Redis session tracking.
- Integrated **Google OAuth 2.0** 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:
 - Soft delete flags data as inactive; hard delete removes it permanently.
- 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.

Education:

PMAS Arid Agriculture University, Rawalpindi (Undergraduate)

2025

Bachelor's in Computer Science