

MUHAMMAD TAQI HAIDER

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EDUCATION

NED University of Engineering and Technology (CGPA: 3.312 / 4.00)

Karachi (2022–Present)

- Bachelor of Science (Computer Science & Information Technology)

WORK EXPERIENCE

KoderLabs

Associate Software Engineer

(Mar 2025 – Oct 2025)

- Developed backend services using **NestJS** and **.NET**, improving code structure and scalability.
- Familiar with multitenant architecture concepts and optimized database design for multiple organizations.
- Integrated geospatial features using **Google Maps API** and **PostGIS**, and implemented real-time/cloud functionality with **AWS S3**, **SignalR**, and **Azure Functions**.
- Refactored backend logic and optimized queries, enhancing in-app purchase response times and performance.

QBS Co.

.NET Intern

(Dec 2024 – Mar 2025)

- Built backend modules for **Ajeeks**, enhancing usability and business workflows.
- Developed **Docker**-based microservices, integrated **gRPC**, and implemented **Neo4j** recommendations.
- Applied **CQRS architecture** to improve system separation, scalability, and maintainability.

PROJECTS

TrackWise – Smart Personal Finance Management System

(May 2025 – Present)

- Solving inefficiencies in manual expense tracking and budgeting by building a **full-stack personal finance platform** for real-time financial insights.
- Developed a **scalable backend** with **NestJS**, **PostgreSQL**, **JWT-secured APIs**, integrated **MailService**, and implemented AI-driven **income and expense description categorization** (hosted on **HuggingFace**).
- Delivered **dynamic dashboards** via Angular 19 and deployed the platform on **Vercel** (frontend) and **Render** (backend) with **Azure PostgreSQL**, enabling high availability and actionable user insights.

CourseFlow – Smart Course Scheduler

(Dec 2024 - Jan 2025)

- Solved scheduling conflicts and manual timetable planning by developing a **Flask-based course scheduler** for **automated classroom allocation** and **conflict-free time slots**.
- Applied **Greedy and Backtracking algorithms** with an **admin dashboard** to optimize scheduling efficiency and improve timetable accuracy.

Stock Management System

(June 2024 - July 2024)

- Addressed inefficiencies in manual inventory tracking by developing a **Python-Flask web application** for **real-time inventory, sales, and purchase management**.
- Automated stock updates, low-stock alerts, and **reporting dashboards**, enabling better inventory control and improved operational efficiency.

SKILLS

Languages

- Python • TypeScript • JavaScript • C# • C++

Frameworks & Libraries

- .NET Core • NestJS (Node.js) • Flask • ReactJS

Databases & DevOps

- PostgreSQL • MySQL • Entity Framework • Docker • AWS S3 • Azure (Functions, SignalR, Triggers)

Architecture & Tools

- REST APIs • gRPC • Clean Architecture • Microservices • Git • Postman • Swagger

TECHNICAL COMPETITIONS

- Advanced to **Round 2 of KODERZ COMBAT** and competed in **Game of Codes V**, solving **real-time algorithmic challenges** in **Python** and **C++** under competitive conditions.
- Strengthened **data structures and algorithms** by solving **240+ problems** on **LeetCode** and practicing consistently on **HackerRank**, demonstrating strong problem-solving consistency.