

# Muhammad Talha Khan

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 [muhammadtalhakhan2003.github.io/PortFolio\\_Talha/](https://muhammadtalhakhan2003.github.io/PortFolio_Talha/)

## SUMMARY

Proactive Computer Science graduate with strong skills in JavaScript, Node.js, and full-stack development. Hands-on experience in software engineering, system design, and building secure, scalable applications. Proven ability to solve problems, adapt quickly to new technologies, and thrive in dynamic, collaborative environments. Passionate about learning, innovation, and delivering impactful, real-world solutions.

## EDUCATION

- **University of South Asia** 2021 - 2025  
*Bachelor of Computer Science*
  - **GPA:** 3.39/4.00
  - **Coursework:** Artificial Intelligence, Data Science, Web Programming, Software Design and Analysis and Advanced Database
- **FAST - National University of Computer and Emerging Sciences** 2025 - 2027  
*Masters of Computer Science*

## EXPERIENCE

- **Associate Software Engineer – ECOM Specialist LLC** June 2025 - Present  
*JWT, JavaScript, Nodejs*
  - Built scalable backend services using Node.js, Express.js, and PostgreSQL.
  - Implemented JWT authentication, optimized APIs, and enhanced database performance.
  - Participated in Agile sprints, testing, and production deployments.
- **Backend Intern – Internee.pk** Sep 2024 – Dec 2024  
  - Built and debugged RESTful APIs in Node.js, reducing response errors by 30%.
  - Assisted in database optimization, improving backend performance by 25%.
  - Streamlined internal tools, accelerating deployment cycles.

## PROJECTS

- **Final Year Project - Hifazat App** August 2024 - May 2025  
*Flutter, Django, PostgreSQL, REST APIs, Web Scraping*
  - Built a mobile app for location-based crime reporting and community safety.
  - Created a Django REST API with secure JWT authentication and role-based access.
  - Used PostgreSQL with PostGIS for storing and filtering location data.
  - Added real-time incident updates
  - Designed the backend with a scalable, modular structure for easy maintenance.
- **Blog Website with OAuth** January 2025 - April 2025  
*Node.js, MySQL*
  - Developed a blog platform with secure OAuth login for user authentication.
  - Built REST APIs for user profiles, posts, and comments.
  - Used MySQL for structured data storage and optimized queries.
- **Live Tracking System** January 2024 - May 2024  
*Node.js, Socket.IO, Express*
  - Developed a real-time tracking system using WebSockets to update user locations live.
  - Implemented bi-directional communication for instant map updates and notifications.
  - Designed backend to handle concurrent connections efficiently.

## CERTIFICATE

- **Coursera - IBM** Jan 2025 - June 2025  
Proven expertise in full-stack development, high-performance back-end systems, cloud-native microservices, data-driven Django applications, intuitive UI/UX design, cross-platform mobile app development, dynamic React front-ends, and AI-powered software solutions