

# MAHAD REHMAN DURRANI

+92 333 9131317 ♦ Islamabad, Pakistan

[mahadrehman04@gmail.com](mailto:mahadrehman04@gmail.com) ♦ [linkedin.com/mahad-rehman](https://www.linkedin.com/in/mahad-rehman) ♦ [github.com/mahadrehmann](https://github.com/mahadrehmann)

## SUMMARY

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Machine learning enthusiast with foundational experience in model training, data processing, and deployment using Python. Android developer skilled in Kotlin and Android Studio, proficient in building efficient, responsive mobile applications.

## SKILLS

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**Programming Languages** Python, Kotlin (Android), XML, HTML, CSS, JavaScript, C/C++, C#(.NET Desktop Development), DBMS(MySQL, Design), Assembly x86(Irvine /WinAPIs)

**Softwares** Android Studio, Visual Studio, Visual Studio Code, SQL Server Management Studio(SSMS), GitHub, Ubuntu, Proteus, Microsoft Office

## PROJECTS

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**TORCS Autonomous Agent — Python, PyTorch, scikit-learn:** Trained a neural network to self-drive in TORCS, integrating the model into a real-time Python client for fully autonomous driving.

**Connect Me — Kotlin, Firebase (Auth, Realtime DB, Storage), XML, Android Studio:** Built a social media-style Android app with features like post uploads, dynamic story sharing, and real-time direct messaging using Firebase services.

**Zarooriyaat E-Commerce — Java, Spring Boot, Thymeleaf, HTML, CSS, JavaScript, MySQL:** Built a full-stack e-commerce platform using REST APIs, MVC architecture, and applied GRASP & GoF design patterns for clean, maintainable code.

**Gym Management System:** Developed a Gym Management System in C# .NET using MySQL database, offering dedicated interfaces for members, trainers, admins, and owners. The system includes comprehensive report generation and streamlines various gym operations.

## EXPERIENCE

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### Lab Demonstrator - Object Oriented Programming(OOP) and Operating Systems(OS)

- Assisted 82+ students in understanding OOP and OS concepts and resolving 300+ programming challenges during labs.
- Conducted evaluations of lab tasks and delivered constructive feedback to enhance learning outcomes.

## EXTRA-CURRICULAR ACTIVITIES

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### Walmart USA Advanced SE Virtual Experience Program on Forage

- June 2024

- Completed advanced tasks in Python data munging and a novel Java heap structure to optimize Walmart's shipping operations.
- Designed an entity relationship diagram to meet database requirements for Walmart's pet department.

## EDUCATION

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**Bachelors of Computer Science**, FAST National University - Islamabad

2022 - Present

**HSSC**, Islamia College Peshawar

2020 - 2022