

MUHAMMAD IBRAHEEM

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PROFESSIONAL SUMMARY

BS Computer Science undergraduate (CGPA: 3.66 | Expected 2027) and product builder who has designed, built, and deployed a full-stack two-sided marketplace end-to-end. Combines real product execution from API integrations to auth, analytics, and cloud infrastructure, with a strong foundation in algorithms, system design, and AI. Focused on building scalable, problem-solving products.

EDUCATION

BS Computer Science — COMSATS University Islamabad – Lahore Campus *Feb 2024 – Jan 2028 (Expected)*

CGPA: 3.66 / 4.00

Relevant Coursework: Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Database Systems, OOP, Web Technologies, Operating Systems, Advanced Database Systems

EXPERIENCE

Founder & Product Builder — [HostelDekhood](#)

2026 – Present

- Built and deployed a full-stack two-sided marketplace connecting students with hostel owners — end-to-end, solo.
- Implemented structured listing system with room-level availability tracking, search & filters, and direct owner–student communication.
- Currently iterating through active onboarding and real-world validation with hostel owners across Lahore.

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, C#, C++, C

Web Dev: HTML, CSS, JavaScript (ES6+), React.js, Node.js, Express.js, REST API Design.

Databases: Supabase (PostgreSQL), MySQL, Microsoft SQL Server

AI & ML: Reinforcement Learning (DDPG), scikit-learn, Predictive Modelling, RAG Systems

System Design: Full-Stack Architecture, Database Schema Design, API Integration, MVVM **Version**

Control: Git, GitHub

Problem Solving : Solved 23+ Data Structures & Algorithms problems on LeetCode, including 8 medium-level challenges.

PROJECTS

[HostelDekhood](#) — Live Marketplace Platform

- Developed a marketplace platform for hostel discovery with structured listings and availability tracking
- Enabled direct communication between students and hostel owners □ Focused on solving lack of transparency in student housing

RL-Based UAV Exploration System — [GitHub](#)

Multi-Agent AI

- Built a reinforcement learning system using DDPG for autonomous 2D environment exploration by multiple UAV agents.
- Implemented path planning and inter-agent coordination strategies; visualized environment coverage using heatmaps.

Restaurant Management System — [GitHub](#)

Full-Stack web application

- Designed an order management system using core data structures to simulate real-world restaurant workflows
- Implemented Queue (FIFO) for dine-in, Stack (LIFO) for delivery, and Priority Queue for takeaway order handling
- Built a backend layer to process and manage orders, connected with a basic frontend interface
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Find Your Path — Career Counseling App — [GitHub](#)

Desktop Application

- Designed a rule-based career recommendation engine with multi-stage decision logic driven by structured user inputs.
- Built as a full desktop application with a clean GUI, focusing on branching logic and user flow clarity.

Pharmacy Management System — [GitHub](#)

Full-Stack Desktop

- Developed a C# .NET desktop application using MVVM architecture with real-time dashboard, order tracking, reservations, inventory, and payments.
- Designed a SQL Server backend with stored procedures and asynchronous two-way data binding for realtime updates.

Bank Management System — [GitHub](#)

Systems / Backend

- Built a backend banking system covering account management, transaction processing, and role-based access control.

INTERESTS

Building problem-solving products, RAG Systems & Applied AI, Full-Stack Product Development , System Design, Chess.