

Muhammad Ibrahim

Software Engineering student

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Third-year Software Engineering student at GIKI with **Dean's List honors**, combining strong algorithmic problem-solving skills (**ICPC top 12 nationally**) with practical development experience in **game development**, **full-stack web applications**, and **machine learning**. Passionate about creating innovative software solutions with measurable impact while maintaining **3.37 CGPA** on a **50% merit scholarship**.

EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology

September 2023 – Present

B.E. Software Engineering | CGPA: **3.37** | **Dean's List** | **50% Merit Scholarship**

- Relevant Coursework: Algorithms, Data Structures, Compiler Design, Machine Learning
- Activities: **ICPC Competitive Programming (National Top 12)**, Microsoft Hackathon (**3rd Place**)

Lahore Grammar School

Graduated 2023

A-Levels | **100% Scholarship** | **Student Council Member**

PROFESSIONAL EXPERIENCE

Game Development Intern, Mindstorm Labs

June 2024 – August 2024

- Led** a development team in creating a 2D platformer game using Unity and C#
- Optimized** game performance by **30%** through profiling and optimization techniques
- Implemented** dynamic UI features, increasing user engagement by **25%**
- Mentored** junior team members in Unity development fundamentals and best practices
- Conducted **5 playtesting sessions**, leading to a **15% improvement** in game functionality
- Boosted** team productivity by **20%** through streamlined workflows using Blender and Photoshop

Volunteer, Allah Walay Trust

August 2022 – September 2022

- Designed a data-driven BMI evaluation system for **200+ students**, structuring metrics to assess program success and propose iterative improvements.

PROJECTS

- O-Level Pseudocode Compiler** | Python, Lexical Analysis
 - Engineered** a compiler translating pseudocode into step-by-step Python logic
 - Implemented **tokenizer**, **parser**, **semantic analyzer**, and **code generator** components
- Hospital Management System** | PostgreSQL, HTML, JavaScript, Django
 - Developed comprehensive database management system for GIKI's hospital facilities
 - Implemented patient records management with **secure access control** mechanisms
 - Created appointment scheduling system and medication inventory tracking with alerts
 - Designed reporting and analytics dashboard for hospital administrators
- Album Finder** | React, JavaScript, Spotify API, NodeJS
 - Built **responsive** web application to discover music albums using Spotify's API
 - Implemented advanced search functionality by artist, genre, or album name
 - Created intuitive UI with album previews, details pages, and analytics visualizations

TECHNICAL SKILLS

- Programming Languages: **Python**, **C++**, **C#**, JavaScript, PHP
- Web Development: **React**, HTML5, CSS3, Bootstrap
- Game Development: **Unity**, Blender
- Database & Cloud: MySQL, **PostgreSQL**, **Google Cloud**, Vertex AI
- Machine Learning: **TensorFlow**, BigQuery ML, AutoML, NumPy, Pandas
- Problem-Solving: **Data Structures**, **Algorithm Design**, **Competitive Programming**
- Tools: **Git/GitHub**, Logic.ly, Makefiles, Excel