

# Muhammad Ammar Saleem



Lahore, Punjab



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## Education

### Ghulam Ishaq Khan Institute of Engineering

BSc. Computer Science | Dean's Honor List (GPA 3.5+) | 5th Semester

Courses: AI, Software Engineering, OS, DBMS, Theory of Automata, DSA, CA, COAL, C++ and Python

GIKI, Pakistan

Sep 2023 - present

### Cadet College Hassan Abdal

A - Levels | Best in Academics | 2A\* 2A

Physics, Mathematics, Chemistry | Vice president Computer Club

Hasanabdal, Pakistan

Aug 2021 - Jul 2023

## Professional Experience

### Cultural Dramatics and Entertainment Society

Event and Tech Head

GIKI, Pakistan

Oct 2024 - Dec 2025

- Orchestrated a zero-budget event for 2,000+ students by devising a novel collaboration strategy with 20+ local vendors
- Led digital content strategy as Society Tech Head, increasing social media reach from 40k to 270k+ views

### Techling AI

Front-end Intern

Sheikhupura, Pakistan

Jul 2025 - Sep 2025

- Mastered HTML, CSS, and React within one month, executing 10+ hands-on development projects
- Optimized 3 real-world team projects using useRef hooks, improving application rendering speed by 40%

### The Benefit Foundation

Co-Founder

Sheikhupura, Pakistan

Jul 2022 - Jun 2023

- Founded a youth organization, leading 8 volunteers to execute 5+ COVID-19 relief and community projects.

## Hackathons & Competitions

### Mini-App Hyperthon (Web3 and Blockchain)

Deployed Solution to Ticketing Fraud in Pakistan

Based Pakistan

Dec 2025

- Architected a gasless NFT ticketing protocol on Base L2 using smart contracts with Firebase, utilizing cryptographic signatures for real-time on-chain verification eliminating ticketing fraud by 90%

### Case Study Competition, Beyond Classrooms – Leadership Series

Presented an innovative solution featuring Ilm Baji's

Tech For Pakistan

Dec 2025

- Synthesized M-Pesa's agent model (Africa) into a secure "Learn-to-Earn" ecosystem projected to impact 10,000+ rural students
- Designed decentralized agent network (Ilm Baji's) to bypass cultural mobility restrictions and secure offline learning verification

### HackGit Hackathon and Speed Programming Competition

1st Position in Hackathon, Runners-up in Speed Programming

GitHub

May 2025

- Engineered a fraud-detection system integrating IoT, YOLOv8, and Blockchain to verify rural clinic activity
- Devised a <10K PKR IoT solution scalable to 1,000+ clinics within 1 year, reducing manual audit costs by 90%

## Academic Projects

### AI Recruiter Agent Workshop | Royal Cyber | First one to complete the Workshop

- Developed an AI Recruitment Agent using Google Gemini for automated candidate status retrieval
- Integrated FastAPI and Mailtrap to automate database validation and real-time email notifications

### SERBAS (Smart ER Bed Allocation System) | Introduced Hybrid AI (Combining Supervised & Un-Supervised Learning)

- Fused K-Means, Random Forest, and CSP algorithms to automate patient triage and optimize bed allocation saving 15+ minutes of critical decision-making time per patient
- Achieved 90%+ accuracy on synthetic trials, designing a scalable architecture for universal hospital deployment

### AI Powered Chess Game | Implemented Fully Functional Chess game with basic AI (Min-Max, Alpha Beta Pruning, Priority Queues)

- Leveraged concepts of Data Structures on creating the complex design and development of 100+ Chess rules
- Implemented Min-Max and Alpha Beta Pruning Algorithm and Iterative Search and reduced AI thinking time by over 90%

## Technical Skills

**Languages:** Python, C++, JavaScript (ES6+), C#, SQL, Assembly, Verilog

**Frameworks & Libraries:** React.js (Hooks, Context API), FastAPI, SQLAlchemy, YOLOv8, Scikit-learn

**Tools & Platforms:** Git, GitHub, Vercel, Firebase, PostgreSQL, Arduino, Proteus, PowerBI

**AI & Concepts:** Generative AI (Gemini API), Computer Vision, Supervised/Unsupervised Learning, IoT, Data Structures