

# Muhammad Ali Alam

**Location:** Siegen, North Rhine-Westphalia, Germany

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## Academic Qualification:

**University of Siegen:** MS Computer Science (2023 - 2025)

**Courses** - Embedded AI, Development of Embedded Systems using FPGAs, Ubiquitous Computing

**IBA(Institute of Business Administration), Karachi:** BS Computer Science (CGPA: 3.26) (*Aug 2018 - May 2022*)

**Courses** - Mobile Based Application Development, Computer Vision, Game Design and Development, ERP, Programming Quantum Computers, Bioinformatics, Introduction to Data Mining

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## Work Experience:

**CreditBook: Full Stack Software Developer (MERN)** (*July 2022- June 2023*)

- Teamed up with fintech division to create "Tijarah flow" loan application, which later became the **primary revenue source for the company**.
- Conducted 5 A/B tests using Firebase, resulting in an **improved conversion rate of approximately 18.5%**.
- Implemented and managed MoEngage SDK integration, **providing managers with the ease** of sending in-app messages and push templates **without requiring any engineering work**.
- Integration of OTPless SDK, **reducing login and sign-up cost**.
- Engaged with users through visits to gain a comprehensive understanding of app usage and user issues, then communicated insights to the design and product teams.
- Resolved reported bugs promptly to ensure a seamless user experience.
- Achieved an approximately **18% reduction in the mobile app's size** by employing a different library for displaying PDF files to users.
- Developed unit tests **using Jest** to verify the functionality and screens created.

**Mindstorm Studios – MLAB Fellow** (*July 2021 - Sep 2021*)

- Build a team to participate in summer Game Jam 2021 to develop a 3D hyper-casual game (Package Collector) in **Unity3d**.

**Engro corporation, IT intern** (*July 2021 - Sep 2021*)

- Collaborated with team to **implement Huawei IdeaHub** (one solution for video conferencing).
- Testing of the System with 4 different location solved major issues during Video Conferencing.

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## Projects:

**Web WhatsApp clone** – Implemented real time chat functionality using React, Node, Express, MongoDB, Socket.io.

**Ecommerce App** – Formed and collaborated in a team to develop an ecommerce mobile app using MERN stack for a 6-week DevNation's mentorship training program. Learning basics of software development, code review, git, project management using Jira, Software development life cycle and Software Testing.

**History Archive App** – Collaborated in designing and developing a cross-platform mobile application using MERN stack.

**Package Collector** – Mobile based hyper casual game built in **Unity3d** during Internship for Mindstorm Studios.

**Sedulous Furnishing** – Designed and developed a 2D casual mobile base game with a story of assembling and selling furniture.

**CRUD Web Application using .NET** - Developed web application in .NET core, using C#, HTML, CSS, and bootstrap.

**Image Compression** – Implemented Huffman encoding using heap tree in Java to compress and decompress Images. Images sizes were compressed **up to 90%** for dataset of similar colored images.

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## Community Service:

**IBA Karachi, Teacher's Assistant:** (*Sep 2021 - May 2022*)

- Conducted tutorials, quizzes, evaluated the performance of 70 students and resolved individual queries for the courses Design and Analysis of Algorithms (8<sup>th</sup> Semester) and Data Structure and Algorithms (7<sup>th</sup> Semester).  
**The Citizens Foundation, Teacher's Assistant** (*June - July 2019 & June - July 2020*)
- Taught 40 students from underprivileged backgrounds, **75% of them cleared math cut-off score** in NED, SZABIST, CBM, IBA, FAST.

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### **Languages:**

Urdu: Native

English: Proficient (C1)

German: Basic (A2)

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### **Certifications:**

15 certificates in Data Science, Bioinformatics, and Programming from Coursera, Hacker Rank, and Data Camp, available in LinkedIn.

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### **Extra-Curricular Activities:**

**Best Management Trainee award** for “Probattle 2019” of IBA Computer Science Society.  
Badminton, Chess, Swimming.