# Khawaja Muhammad Bilal

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Urdu, American English

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## EDUCATION

**Bachelor of Science in Software Engineering**

**CGPA 3.64/4.0**

University of Management and Technology

March 2023 - Feb 2027

**Relevant Coursework:** Software Requirement Engineering, OOP, Database Systems, Software Engineering, Data Structures and Algorithms (DSA), Probability Theory and Statistics, Calculus and Analytical Geometry, Programming Fundamentals, Discrete Mathematics

**Intermediate in Computer Science**

**Grade B+**

Crescent College

August 2019 - July 2021

**Major:** Computer Science, Mathematics and Physics

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## PROFESSIONAL EXPERIENCE

**Credminds**

**July 2024 - Present**

**Software Engineer**

- Developed and maintained client-facing web applications using **MERN** stack (MongoDB, Express, React, Node.js) and **Next.js**, ensuring seamless performance and scalability for **10+** clients.
- Optimized a client's **Three.js**-based website, reducing page load times by **40%** through performance tweaks (e.g., lazy loading, asset compression), enhancing user experience and client satisfaction.
- Contributed to seamless project handoffs by writing **clean**, **modular** code and **documenting** key features for future scalability.
- Maintained and upgraded existing client websites, resolving bugs and improving UI/UX responsiveness.

**Technobooks**

**Feb 2024 - July 2024**

**Associate Software Engineer**

- Delivered **10+** scalable web applications for diverse clients using **MERN** stack and **Next.js**, aligning with tight deadlines and client requirements.
- Boosted SEO performance for client websites by **20-30%** through **Next.js** server-side rendering (SSR) and strategic metadata optimization.

**Undefined Tech**

**Sept 2023 - Nov 2023**

**React Native Intern**

- Collaborated with a senior developer to build and maintain a **React Native** app using **Firebase**.
- Redesigned **5+** core app screens to improve UI/UX, increasing user engagement by **40%** through intuitive navigation and visual consistency.
- Optimized component rendering performance by implementing memoization and lazy loading.

**TriconV Technologies**

**Dec 2022 - June 2023**

**Laravel Developer**

- Collaborated with a senior developer to debug and optimize legacy codebases, improving site performance and ensuring seamless functionality across **2+** projects.
- Assisted in overseeing a team of **5** React interns, delegating tasks such as UI component development and API integration to meet sprint deadlines.
- Developed a custom PHP script to automate parsing and transformation of large Excel datasets into client-specific formats, reducing manual data entry time by **70%** and minimizing human error.

## STARTUPS AND PROJECTS

**MyPath**                                                    **September 2024 - Present**
**(Gained incubation at Lahore National Incubation Center )**

- Design and maintain scalable **REST APIs** using **Golang.**
- Architect modular codebases following **clean code** principles, enabling seamless integration of new features and reducing technical debt for the engineering team.
- Implement **Swagger** documentation for all endpoints, reducing onboarding time for frontend developers by **25%**.

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## ACHIEVEMENTS

**Surge Hackathon**
Successfully organized a nationwide hackathon with **100+** participants at University of Management & Technology, leading a diverse team of students. Managed logistics, participant outreach, and event execution with attendees from across Pakistan.

**Hackathon Triumphs**
Won multiple web development hackathons at prestigious institutions such as:
**LUMS PSIFI HACKXVI - First Position**
- Built a responsive, user-friendly interface using **Next.js** and **TailwindCSS**, ensuring server-side rendering (SSR) for fast load times and SEO optimization.
- Designed reusable React components (e.g., job cards, registration forms) with clean and modular code.
- The site is deployed on Vercel, here.

**FCC Ignite - First Position**
- Rapidly built a responsive, feature-rich interface in **12 hours** using **React.js**, **TailwindCSS**, and **ShadcnUI**, focusing on pixel-perfect replication of AirBnB's core UX.
- Delivered reusable components (e.g., property listings, booking modals) with clean and maintainable code.

**FAST Softec 2024 - Runner Ups**
- Architected a responsive UI using **React.js** and **TailwindCSS**, enabling users to list, browse, and book hotel rooms with real-time chat functionality via WebSocket integration.
- Collaborated with backend developers to integrate **RESTful APIs** and **WebSocket** endpoints, delivering a full-stack **MERN** (MongoDB, Express, React, Node.js) solution in under **24 hours**.

**Open-source Contributions**
Contributed to open-source repositories focused on local communities, including GDGoC's Cloudup.dev project. Implemented new and optimized configuration files for a new runtime, enabling the site to efficiently generate Docker configuration files. You can check the site out here.

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## LEADERSHIP AND VOLUNTEER WORK

Web Development Lead at **GDGoC UMT (Google)** ｜ Computer Science Society UMT **(Vice President '24)** ｜ Surge Hackathon **(President '24)** ｜ Bookme Ambassador (**2023)**

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## INTERESTS

Hackathons ｜ Backend Development ｜ Tech Communities ｜ Reading ｜ System Design & Architecture