

# Muhammad Talha Atif

Full Stack Engineer

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## PROJECTS

### Moodly- Experience Booking Platform [Link](#)

Aug '25 — Present

- Architected a real-time mood detection system using voice tone and facial expression analysis, powered by a RabbitMQ event-driven pipeline to dynamically personalize user experiences, significantly increasing satisfaction and retention.
- Built seamless booking and cancellation workflows with one-tap actions and instant confirmations, reducing transaction drop-off rates and streamlining user experience flow.
- Designed UI components that help users maintain their connection streaks, track mood changes, and visualize their mood journey over time, improving overall engagement and retention.
- Implemented voice-command interface enabling hosts to create and manage experiences hands-free, accelerating content onboarding with real-time backend synchronization via event-driven architecture.

### Memingo - Language Learning Platform [Link](#)

Sep '24 — Present

- Optimized leaderboard API performance by implementing **Redis caching**, reducing response time from 30 seconds to approximately 90ms and eliminating user drop-off to enable seamless real-time rankings
- Built a real-time object-detection module that identifies items and instantly delivers vocabulary, cultural context, and learning tips, transforming the app into a highly context-aware language learning experience
- Designed and built 9 interactive lesson formats for diverse learning styles, increasing course completion and improving long-term retention.
- Integrated a **Gemini API-powered chatbot** to provide personalized learning paths and resources, accelerating average learner progression

## WORK EXPERIENCE

### Full Stack Engineer

Present

Digital Upgraders LLC

United Arab Emirates (Remote)

- Supporting ongoing development across a multi-role platform built on Next.js, Supabase, Express.js and deployed on AWS EC2.
- Spearheading comprehensive codebase refactoring by implementing atomic design patterns, feature-based architecture, and DRY principles, reducing code duplication by 35%
- Resolving critical cross-platform compatibility issues affecting Android and web platforms, implementing responsive scroll behaviors and touch event handlers to ensure consistent UX across devices
- Optimizing session management infrastructure in Supabase and Next.js stack reducing authentication failures by 40% through improved token refresh logic and session persistence strategies

## SKILLS

**Programming Languages** Javascript, TypeScript, SQL, Python

**Backend** Node.js, Nest, Express.js, Mongoose, Fast Api, Flask, Microservices, Next.js

**Databases** MySQL, MongoDB, SQ Lite, PostgreSQL, Supabase

**Development Tools** Android Studio, VS Code, IntelliJ IDEA, Postman, Eclipse, Pycharm

**Frontend** Html, CSS, React JS, TailwindCSS, Shaden UI

**Version Control** Github, Git

**AI & Third Party Services** Swagger, Stripe, Open Ai, Gemini, Hugging Face Models

**Mobile App Development** React Native, Expo, Android SDK, Android

**Cloud & DevOps** Docker, RabbitMQ, Firebase, AWS, AWS S3, AWS RDS

## CERTIFICATIONS

[Master Microservices with SpringBoot, Docker, Kubernetes](#), Udemy

May '25

## AWARDS

[Runner-up, App Development Hackathon \(2025\)](#)

Organized by Punjab University

May '25

[Participant, Devathon Speed Programming Contest \(2024\)](#)

Organized by Devsinc

Oct '24

[Participant, CALICO Berkeley Speed Coding Competition \(2024\)](#)

University of California, Berkeley

Dec '24

[Ranked, ICPC Asia Topi Online Programming Contest \(2024\)](#)

Organized by International Collegiate Programming Contests

Nov '24

EDUCATION

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**Bachelor's degree in Computer Science**, University of Management and Technology - UMT

Oct '21 — Aug '25  
Lahore, Pakistan