

# Muhammad Abdullah

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## Professional Profile

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I'm a Full Stack Developer with over 2 years of experience in building web and mobile applications. I specialize in the MERN and PERN stacks, creating robust and scalable solutions that solve real-world problems. My journey in software development has equipped me with strong problem-solving skills and a deep understanding of both front-end and back-end technologies. I'm passionate about writing clean, efficient code and delivering exceptional user experiences. When I'm not coding, I'm constantly learning new technologies and staying up-to-date with the latest industry trends to ensure I can provide the best solutions for my clients and projects.

## Technical Skills

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**Languages:** TypeScript, JavaScript, Python

**Backend:** Node.js, Express, Prisma, Sequelize

**Frontend:** React, React Native, Expo, Next.js, Electron

**Databases:** PostgreSQL, MySQL, SQLite, MongoDB

**DevOps & Tools:** Docker, Docker Compose, GitHub Actions, AWS EC2, Linux, Bash

**Testing & Automation:** Playwright, Puppeteer, Cheerio

## Work Experience

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### Ali Square (Jan-24 to Present)

#### Full Stack Software Engineer

##### *Roles and Responsibilities:*

- Designed and implemented scalable backend systems, ensuring seamless integration with frontend systems for optimal performance and user experience.
- Developed and maintained RESTful APIs using Node.js and Express, improving system interoperability, data consistency, and response times.
- Optimized database performance by leveraging Prisma ORM, implementing indexing, query optimization, and caching strategies to enhance scalability.
- Managed deployments using Docker and Docker Compose, streamlining development workflows and ensuring consistent environments across different stages.
- Implemented CI/CD pipelines with GitHub Actions, automating testing, building, and deployment processes to ensure smooth rollouts with minimal downtime.
- Developed web scraping solutions using Cheerio, automating data extraction tasks and integrating scheduled cron jobs for periodic updates.
- Deployed websites with SSL certificates, ensuring secure communication and enhancing trust and compliance with industry standards.
- Ensured robust security measures by implementing authentication, authorization, and data encryption best practices to protect user data.
- Monitored system performance, proactively identifying and resolving bottlenecks, and implementing maintenance strategies to ensure high availability.

### Gitrex Technologies (Jan-23 to Dec-23)

#### Full Stack Software Engineer

##### *Roles and Responsibilities:*

- Developed hybrid mobile applications using React Native and Expo, ensuring high performance, scalability, and a seamless cross-platform user experience.

- Developed backend systems using Firebase Cloud Functions, improving system reliability and enabling serverless execution.
- Optimized Firestore database structure and queries to enhance application efficiency, reduce latency, and support real-time data synchronization.
- Leveraged Firebase services, including Authentication for secure user management and Cloud Messaging for push notifications, to deliver robust and scalable functionality.
- Created responsive and user-friendly interfaces with React Native and Expo, integrating smooth animations and optimizing rendering performance.
- Integrated Square Payments SDK to enable secure and seamless in-app payment processing, enhancing the overall user experience.
- Utilized Google Cloud Tasks to manage asynchronous workloads, ensuring reliable execution of background jobs and efficient task scheduling.
- Implemented Expo Updates to enable seamless over-the-air (OTA) updates, ensuring users receive the latest features and fixes without requiring app store submissions.
- Developed automation workflows, including Google Sheets automation, where client input data was automatically synced with Firestore, reducing manual effort and improving data consistency.
- Implemented Slack notifications to streamline communication, enabling real-time alerts for database updates.

## **Remote Solutions (Oct-22 to Dec-22)**

### **Internship**

#### *Roles and Responsibilities:*

- Gained hands-on experience in full-stack development by working on real-world projects, applying best practices in both frontend and backend development.
- Assisted in designing scalable architectures, developing APIs using serverless functions, and optimizing database performance for improved efficiency.
- Built responsive and interactive UI components using modern frontend frameworks, ensuring a seamless and engaging user experience.

## **Projects**

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### **Brain Bash (Jan 2025 - Feb 2025)**

**Company:** Ali Square

A dynamic quiz platform with customizable question sets, real-time scoring, and user progress tracking. I developed the backend to ensure scalability and real-time data processing.

- Developed a scalable backend to support multiple concurrent users without performance degradation.
- Implemented real-time scoring and progress tracking using efficient database queries.
- Optimized API endpoints for fast and seamless quiz interactions.

*Tech Stack:* PostgreSQL · Express.js · Node.js · TypeScript · Prisma ORM · MQTT

### **RiderPro App (Sep 2024 - Dec 2024)**

**Company:** Ali Square

A ride-sharing and car rental platform connecting drivers, passengers, and car owners. I was responsible for backend development, including trip management and fleet tracking.

- Built a role-based backend with real-time trip management and car rental features.
- Integrated MQTT-powered notifications for real-time communication and fleet tracking.
- Designed and optimized database schemas using PostgreSQL and Prisma for seamless data handling.

*Tech Stack:* PostgreSQL · Express.js · Next.js · TypeScript · Prisma ORM · MQTT

### **Zameen Properties Scraper (May 2024 - Aug 2024)**

**Company:** Ali Square

A scalable web scraper for Zameen.com, extracting and storing 50,000+ real estate listings with a REST API for real-time data access. I developed both the scraper and backend.

- Built a high-performance web scraper using Node.js and Cheerio to extract structured property data.
- Developed backend APIs for efficient retrieval of real estate listings.
- Deployed on AWS EC2 for scalability and implemented GitHub Actions for CI/CD automation.
- Optimized PostgreSQL storage and indexing for handling large-scale datasets.

*Tech Stack: Cheerio · Node.js · TypeScript · Express.js · PostgreSQL · AWS EC2 · GitHub Actions (CI/CD)*

### **Attentive (Mar 2024 - Apr 2024)**

**Company:** Ali Square

A cross-platform desktop application built with Electron to enhance task management and productivity. I worked on both the frontend and backend, ensuring smooth app functionality and integration.

- Built the frontend using React.js and Electron for a seamless desktop experience.
- Implemented a Chrome extension for real-time synchronization with the desktop app.

*Tech Stack: Electron.js · React.js · Node.js · TypeScript*

### **FunkyFood AU (Jul 2023 - Dec 2023)**

**Company:** Gitrex Technologies

A cross-platform mobile application built with React Native, delivering a seamless user experience across iOS and Android devices. Played a key role in back-end development ensuring robust functionality and scalability of the platform.

- Designed and implemented back-end using Firebase Cloud Functions, enabling serverless execution of critical application workflows.
- Integrated Square In-App Payments on both frontend and backend, providing secure and efficient payment processing for users.
- Developed custom subscription models (weekly, bi-weekly) to meet business requirements, as these were not natively supported by Stripe. This involved creating tailored logic for subscription management, billing cycles, and automated notifications.
- Leveraged Firestore for real-time data synchronization and efficient database management, ensuring high performance and reliability.
- Utilized Firebase Cloud Messaging to implement push notifications, enhancing user engagement and retention.

*Tech Stack: React Native · Firebase Cloud Functions · Firestore · Firebase Cloud Messaging · TypeScript · Square API*

## **Education**

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### **Quaid-i-Azam University (2019 – 2023)**

BS Computer Science - CGPA: 3.3 out of 4.0

## **Interests**

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Passionate about Gaming, AI/ML and Automation.