Muhammad Abdullah

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Professional Profile

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

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

Ali Square (Jan-24 to Present)
Full Stack Software Engineer

- Designed and implemented scalable backend architectures, ensuring seamless integration with frontend systems for optimal performance and user experience.
- Led a key project from conception to deployment, overseeing architecture design, development, and optimization for reliability, security, and efficiency.
- 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.
- Collaborated with cross-functional teams, including product managers, designers, and engineers, to align technical solutions with business objectives.

Gitrex Technologies (Jan-23 to Dec-23)
Full Stack Software Engineer

- Developed hybrid mobile applications using React Native and Expo, ensuring high performance, scalability, and a seamless cross-platform user experience.
- Designed and implemented backend architectures 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.
- Created responsive and user-friendly interfaces with React Native and Expo, integrating smooth animations and optimizing rendering performance.
- Worked extensively with Firebase services, including Firestore for real-time data storage, Firebase Authentication for secure user management, and Firebase Cloud Messaging for push notifications.
- 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.
- Collaborated with cross-functional teams, including UI/UX designers, product managers, and QA engineers, to deliver feature-rich applications that align with business requirements.

Remote Solutions (Oct-22 to Dec-22)
Internship

- 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.
- Collaborated with senior developers, actively participating in code reviews and technical discussions to enhance problem-solving and coding skills.

Projects

Brain Bash (Jan 2025 - Jan 2025)
Tech Stack: PostgreSQL · Express.js · Node.js · TypeScript · Prisma ORM · MQTT

- Developed a dynamic quiz platform with customizable question sets, real-time scoring, and user progress tracking.
- Provided an engaging experience for users to learn and self-assess through interactive quizzes.
- Implemented a scalable backend to support multiple concurrent users without performance degradation.

RiderPro App (Sep 2024 - Dec 2024)
Tech Stack: PostgreSQL · Express.js · Next.js · TypeScript · Prisma ORM · MQTT

- Built a role-based logistics platform with car rental features, real-time trip management, and an admin dashboard for tracking KPIs.
- Integrated MQTT-powered notifications to enhance real-time communication and fleet tracking.
- Implemented advanced filtering and analytics to help admins monitor fleet operations efficiently.
- Designed and optimized database schemas using PostgreSQL and Prisma for seamless data management.

Zameen Properties Scraper (May 2024 - Aug 2024)
Tech Stack: Cheerio · Node.js · TypeScript · Express · PostgreSQL · React · AWS (EC2) · GitHub Actions (CI/CD)

- Developed a web scraping tool to extract real estate data from Zameen.com, one of the leading property listing platforms.
- Implemented features to gather detailed property information such as price, location, property type, area size, number of bedrooms and bathrooms, amenities, and seller details.
- Deployed the scraper on AWS EC2 for scalability and integrated GitHub Actions for automated deployment and CI/CD.
- Ensured efficient data processing and storage using PostgreSQL and optimized performance for large-scale data scraping.

Attentive (Mar 2024 - Apr 2024)
Tech Stack: Electron.js · React.js · Node.js · TypeScript

- Created a powerful desktop application designed to improve productivity by blocking distracting websites and applications.
- Provided users with a seamless experience for time management and focus.
- Designed and developed using Electron for cross-platform compatibility and smooth desktop performance.

Education and Certifications

Quaid-i-Azam University (2019 − 2023)
BS Computer Science - CGPA: 3.3 out of 4.0

Interests

Passionate about Gaming, AI/ML and Automation.