

# MUHAMMAD WASIQ

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## PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 1+ year of professional experience building scalable web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js) and Next.js. Proven track record of developing production-ready applications with real-time features, authentication systems, and third-party API integrations. Strong foundation in data structures, algorithms, and system design with active competitive programming practice on LeetCode.

## TECHNICAL SKILLS

**Programming Languages:** JavaScript (ES6+), TypeScript, Python, C/C++, Java, HTML5, CSS3

**Frontend Technologies:** React.js, Next.js, React Native, Redux Toolkit, React Context API, Zustand, Tailwind CSS, Bootstrap, Postman, n8n

**Backend & Databases:** Node.js, Express.js, MongoDB, Mongoose, MySQL, PostgreSQL, REST APIs, GraphQL (basic)

**Cloud & DevOps:** Firebase (Auth, Firestore), Vercel, Netlify, CI/CD, Docker (basic), Git, GitHub

**APIs & Integrations:** Clerk, Appwrite, Sanity CMS, Stream Chat/Video, OpenAI API, Webhooks, Inngest

**Development Tools:** VS Code, Postman, Figma, Sentry, GitHub Copilot, Windsurf

**Authentication & Security:** JWT, OAuth, Firebase Auth, Role-Based Access Control (RBAC)

## PROFESSIONAL EXPERIENCE

### MERN Stack Developer

*Angle Bracket.io*

Karachi, Pakistan

Sep 2023 – Sep 2024

- Developed and maintained full-stack web applications using MongoDB, Express.js, React.js, and Node.js, serving 1000+ active users with 99.5% uptime
- Implemented RESTful APIs with comprehensive error handling and validation, reducing API response time by 40% through query optimization and caching strategies
- Built responsive, mobile-first user interfaces using React.js and Tailwind CSS, achieving 95+ Lighthouse performance scores
- Integrated third-party services including payment gateways, authentication providers (Firebase, Clerk), and real-time communication APIs (Stream)
- Collaborated with cross-functional teams using Agile methodologies, participating in daily standups, sprint planning, and code reviews
- Wrote comprehensive unit and integration tests, maintaining 85%+ code coverage and reducing production bugs by 60%
- Deployed applications on cloud platforms (Vercel, Netlify) with CI/CD pipelines for automated testing and deployment

## PROJECTS

### DevChat – Coding & Live Technical Interview Platform

Sep 2024 <https://devcodes.dpdns.org>

- Engineered a full-stack real-time coding interview platform with React, Node.js, MongoDB, and Stream API, supporting multi-language code execution (JavaScript, Python, Java, C++) with a custom sandboxed execution environment
- Integrated Stream Video and Stream Chat SDKs to enable 1-on-1 video interviews with collaborative code editing, live reactions, and real-time messaging with sub-100ms latency
- Implemented Clerk authentication with role-based access control, JWT tokens, and Inngest background jobs for automated notifications, interview scheduling, and progress tracking
- Designed user dashboard with interview analytics, problem library (50+ coding challenges), test case evaluation system, and progress tracking with MongoDB aggregation pipelines

- Optimized frontend with code splitting, lazy loading, and React Query for state management, achieving 90+ Lighthouse score

## **Botrix AI – Intelligent Chatbot Application**

Jun 2024 [botrixchatbot.netlify.app](https://botrixchatbot.netlify.app)

- Built production-grade AI chatbot using React, Firebase, and OpenAI Thread API with contextual conversation memory and session persistence
- Implemented Firebase Authentication (Google, Email/Password) and Firestore real-time database for storing chat history, user preferences, and conversation threads
- Designed interactive UI with Quick Prompt Cards, file attachment support (PDF, images), and persistent chat history panel with search and filtering capabilities
- Optimized state management using React Context API and Firebase listeners for real-time updates, reducing re-renders by 50%

## **BingOne – Donation Marketplace Mobile App**

Aug 2024

- Developed cross-platform mobile application using React Native, connecting donors with receivers for item donations
- Built RESTful backend with Node.js, Express, and MongoDB, implementing CRUD operations, image uploads (Cloudinary), and geolocation-based search
- Created listing system with image galleries, filtering by category/location, and direct messaging between users
- Implemented push notifications using Firebase Cloud Messaging for new listings and donation requests

## **EDUCATION**

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### **Dawood University of Engineering & Technology**

*Bachelor of Science in Computer Science, GPA: 3.23/4.0*

Karachi, Pakistan

*Expected Jun 2028*

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Web Development

### **HarvardX CS50W – Introduction to Web Programming with Python and JavaScript Jul 2024 – Jan 2025**

## **ACHIEVEMENTS & ACTIVITIES**

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- Active LeetCode problem solver with 200+ problems solved, focusing on data structures, algorithms, and system design
- Participated in DEV DAY 2024 competitive programming contest, solving algorithmic challenges under time constraints
- Competed in CY Society Hackathon at DUET, contributing to problem-solving and team-based software development
- Contributed to COVID-19 Awareness Campaign, utilizing technical skills for community health and safety initiatives