

MUHAMMAD USMAN KHALID

SENIOR MERN STACK DEVELOPER

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Experienced Full Stack Developer with over 5 years of expertise in the MERN stack, having successfully completed 30+ projects across diverse industries. Proficient in front-end and back-end technologies, cloud services, and real-time applications, I specialize in delivering high-quality, scalable solutions. Committed to on-time delivery and exceptional client satisfaction

AREAS OF EXPERTISE

Front-End: React.js | HTML | CSS | Javascript | Next.js | WebRTC | Redux | CMS- Wordpress

Back-End: Node.js | Express.js | Nest.js | Firebase | TS | Microservices | Prisma TypeORM | Sequelize ORM

Programming: Javascript | Typescript

CSS Frameworks: Material UI | Tailwind CSS | Bootstrap | AntD | ShadCN

Databases: MongoDB | MySQL | PostgreSQL | MariaDB | MS SQL Server | SQLite | Redis

Real-Time Response: Socket.io | Firebase Real Time Database | Elasticsearch

Version Control: Git | GitHub | Bitbucket | GitLab | CVS | Google Cloud Source Repositories

Project Management: Jira | Clickup | Asana | Trello | Slack

Miscellaneous Services: Deployment | CI/CD Pipelines | Payment Integrations | Google Cloud APIs | OpenAI APIs | RestFUL APIs

Cloud Services: AWS | Amazon S3 | EC2 | Cognito | AWS Lambda | Azure | Google Cloud | Lightsail | Kinesis | Kubernetes | Docker | Nginx | Cloudfront | Digital Ocean Droplet

Servers: Apache | Nginx | AWS(EC2) | Azure | Hostinger | kafka | CPANEL or Plesk | Serve | Netlify | Certbot SSL setup | Vercel

SOFT SKILLS

Effective Communication

Leadership & Team Management

Proactive & Solution Oriented

Collaboration & Teamwork

Positive Attitude & Resilience

Time Management & Prioritization

EXPERIENCE

CureLogics

January 2024 - Present

Senior Software Developer

- Led a team of software developers to design, develop, and maintain high-performance applications.
- Architected and implemented scalable backend systems using MERN Technologies
- Developed and maintained APIs to support various front-end applications.
- Conducted thorough code reviews, ensuring adherence to best practices and coding standards.
- Collaborated with cross-functional teams, including product managers and designers, to gather requirements and deliver high-quality software solutions.
- Implemented automated testing and continuous integration processes to improve software quality and deployment speed.
- Mentored junior developers, providing guidance and support to enhance their technical skills and career growth.
- Optimized application performance, resulting in significant improvements in speed and reliability.

- Managed project timelines and delivered software solutions on schedule, meeting business objectives and customer needs.
- Stayed current with emerging technologies and industry trends to improve development processes and deliver cutting-edge solutions continually

Skills: Proficient in Node.js, MongoDB, Express.js, REST API, PostgreSQL, MySQL, AWS S3, GraphQL, AWS EC2, Azure, Docker, React.js, TypeScript, Nest.js, TypeORM, Sequelize, Mongoose, WebSockets, Git, Kubernetes, Ubuntu Linux.

MercurySols

February 2021 - December 2023

Senior Software Developer

- Led a full website redesign based on customer segmentation and competitive research, resulting in a 200% increase in website leads.
- Directed the end-to-end software development life cycle, from conceptualization and functional specification to user experience design, coding, testing, and release, while managing ongoing product maintenance and support.
- Presented the app to project teams, top management, and clients
- Designed a prototype to identify key influencers on Twitter using clustering techniques on over 100,000 data points in machine learning.
- Executed major system upgrades for existing clients and provided 24x7 consulting support for over 15 clients.
- Managed an 8-person team to ensure efficient project execution.

Skills: Node.js, MongoDB, Express.js, REST API, PostgreSQL, MySQL, AWS S3, GraphQL, AWS EC2, Azure, Docker, React.js, Typescript, Nest.js, TypeORM, Sequelize, Mongoose, Kafka, Sockets, Git, Kubernetes.

Kairos Solutions

November 2018 - February 2021

MERN Stack Developer

- Engaged in comprehensive business requirement deliberations, scrutinized client requisites, and proposed adept solutions for intricate development challenges with discernment.
- Led the front-end development using React, JavaScript, and TypeScript, implementing modern features.
- Collaborated with cross-functional teams to create responsive web applications, addressed bugs with the SQA team, and ensured cross-platform compatibility.
- Ensured scalable, performant, and accessible applications, resulting in a 25% improved user experience.
- Implemented unit and integration testing, resulting in 100% improved code quality and bug reduction

Skills: Node.js, MongoDB, Express.js, REST API, PostgreSQL, MySQL, AWS S3, GraphQL, AWS EC2, Azure, Docker, React.js, Typescript, Nest.js, TypeORM, Sequelize, Mongoose, Kafka, Sockets, Git, Kubernetes.

PROJECTS

HIMS (Hospital information and management system)

- Developed a comprehensive HIMS (Hospital Information Management System) project using MERN technologies, encompassing both front-end and back-end development.
- Implemented modules for appointments, insurance, financial reporting, access configuration, employees, OPD, IPD, pathology, radiology, pharmacy, and blood bank management.

- Ensured seamless user experience and efficient data handling by integrating robust APIs and optimizing database performance.
- Coordinated with cross-functional teams to design and implement user-friendly interfaces and secure data transactions.
- Enhanced system efficiency and maintainability by building reusable components and achieving high code quality with extensive unit testing.
- Facilitated secure and compliant data handling processes to meet healthcare industry standards and regulations.
- Authored over 200 unit tests, achieving 100% bug-free code coverage.

Website: pakhims.com

Skills: JavaScript Frameworks, SQL, Express JS, Docker, Typescript, Nest JS, Github, Access Control, Cloud Infrastructure, Cloud Services, Project Management, MVP, ERP System, SQLite, Heroku, Cloudflare, Development Standards, Node.js, MongoDB, REST API, React.js, Hostinger, Micro services, TCP, Swagger

Cyara/TestRTC (Cloud Based Solutions for WebRTC Applications)

- Developed a comprehensive project, TestRTC, utilizing a full-stack approach with technologies including Express.js (with Typescript), React.js, MongoDB, WebRTC, AWS, and Lambda Functions.
- Created a robust backend using Express.js with Typescript, ensuring type safety and efficient server-side operations.
- Implemented a dynamic frontend with React.js to provide a seamless user interface and interactive user experience.
- Utilized MongoDB for efficient, scalable database management, handling large volumes of real-time data.
- Leveraged WebRTC for real-time communication capabilities, enabling high-quality audio, video, and data transfer.
- Deployed and managed cloud services using AWS, ensuring scalability, reliability, and performance of the application.
- Incorporated Lambda Functions to handle serverless computing, reducing server load and improving efficiency.
- Conducted thorough testing and debugging to ensure the application met all performance and functionality requirements.
- Collaborated with cross-functional teams to integrate various APIs and third-party services, enhancing the application's functionality.
- Ensured the application's security and compliance with industry standards, focusing on data protection and privacy.

Website: videotest.testrtc.com

Skills: Node.js, MongoDB, Express JS, AWS S3, AWS EC2, Microsoft Azure, Docker, Next.js, SQL Server, Typescript, Nest JS, Memcached, Elastic Search, cloud environments, Webpack, Lambda functions, Agile, react.js, google extensions

Fujairah HR – UAE Government

- Developed Fujairah HR – UAE Government project from scratch, utilizing React, MongoDB, Node.js, Express.js, and Websockets within MERN stack technologies.
- Implemented full-stack development, covering both frontend and backend aspects of the application.

- Ensured seamless real-time communication through Websockets, enhancing user experience and system responsiveness.
- Integrated robust data storage and retrieval functionalities using MongoDB, optimizing data handling and performance.
- Implemented secure authentication and authorization mechanisms to safeguard sensitive government data.
- Collaborated closely with stakeholders to align technical solutions with business objectives and user requirements.
- Achieved high code quality and maintainability through rigorous testing and adherence to best practices.

Website: fuj-hr.ae

Skills: MongoDB, Mongoose, Express js, Nest js, Microservices, TCP, Deployment in Azure server, Cloud services, Third-party APIs integrations, Swagger, Firebase, Stripe integration, GitHub

GotStuck Mobile Application (Recovery / Car Transportation)

- Developed Gotstuck, a platform connecting service providers with motorists and traders for vehicle recovery and transportation, utilizing MERN and Flutter technologies.
- Implemented state-of-the-art technologies such as Geo-location, Live Activity Tracking, and a custom algorithm to provide an efficient solution for users.
- Created a user-friendly app that enables swift booking, significantly reducing response time and costs through advanced Geo-location features and the specialized algorithm.
- Built a complete backend using MongoDB, Express.js, React, and Node.js (MERN stack), ensuring robust and scalable performance.
- Developed a Flutter-based mobile app for cross-platform compatibility, enhancing user experience on both Android and iOS devices.
- Integrated secure payment gateways (PayPal, Stripe) to facilitate smooth and safe online transactions.
- Liaised with cross-functional engineering and design teams to ensure seamless integration of external APIs and maintain a cohesive user experience.
- Designed reusable components to increase system efficiency, consistency, and ease of testing.
- Analyzed and translated business requirements into technical specifications, ensuring the app met all functional requirements.

Website: gotstuck.co.uk

Skills: MongoDB, Mongoose, Express js, Nest js, Microservices, TCP, Deployment in Azure server, Cloud services, Third-party APIs integrations, Swagger, Firebase, Stripe integration

QUALIFICATIONS

MSCS (Master of Science in Computer Science)

2017 - 2019

Khawaja Fareed University of Engineering and Information Technology

- Specialized in advanced topics such as machine learning, artificial intelligence, and data analysis.
- Conducted research and developed innovative solutions to complex computing problems, enhancing technical expertise and problem-solving abilities.

BSCS (Bachelor of Science in Computer Science)

2013 - 2017

The Islamia University of Bahawalpur

- Gained a solid foundation in computer science principles, including algorithms, data structures, and software engineering.
- Completed hands-on projects in web development, databases, and programming languages, showcasing practical coding skills.