

MUHAMMAD AHSAN

Full Stack Developer

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Passionate and results-oriented Full Stack Developer with over five years of experience specializing in backend development. Adept at constructing robust and scalable web applications, with deep expertise in JavaScript and its frameworks, particularly Express.js for backend tasks. Highly skilled in MongoDB for database management and ORM operations. Proficient in designing efficient, maintainable server-side logic, managing databases, and integrating APIs. Additionally experienced in frontend technologies, including Next.js and React, ensuring seamless and responsive user interfaces. Known for effective collaboration with cross-functional teams to deliver high-quality software solutions tailored to client and business requirements.

Education

COMSATS University Islamabad Lahore, Pakistan

BSCS -Bachelor's in science in Computer Science

Core Skills

Frontend Development:

React.js, Next.js, Redux, Vue.js, Angular, JavaScript / TypeScript, HTML5/CSS3, Tailwind CSS, Material UI, Chakra UI, React Native Paper, React Native

Backend Development:

Node.js, Next.js, Express.js, Nest.js, NPM, Yarn, RESTful APIs, Payment Methods like Stripe, PayPal, 2checkout, User Authentication

Database Development:

Sequelize, MySQL, PostgreSQL, Redis, NoSQL Databases like CouchDB and Cassandra, MongoDB, SQLite, Mongoose

Project Management:

Agile Development, JIRA, Asana, Trello, Slack, Microsoft Teams

Testing:

Debug software tools like Cypress and Jest, Event Sourcing, ESLint, Troubleshooting, PHPUnit Testing, PHPStan (max level), Rector

Soft Skills:

Disciplined, Well-Organized, Collaboration Skills, Teamwork, Ability to work independently, Communication Skills

Programming Languages:

JavaScript, Python, C++, C, Java, TypeScript

Work Experience

Tekvill

Software Engineer

Jul 2022 - August 2024 | Remote

- Honed skills in MERN stack development, specializing in Next.js
- Ventured into AI applications with OpenAI
- Crafted robust solutions for web and mobile platforms using MongoDB, Express.js, React.js, and Node.js.
- Contributed to Tekvill's mission of delivering cutting-edge software solutions

Rubik's Solution

Junior Software Engineer

Jul 2020 - Jun 2022 | Remote

Leveraged expertise in MERN stack development, encompassing MongoDB, Express.js, React.js, and Node.js

- Focused on both web and mobile platforms
- Delivered robust and innovative solutions for the company's projects
- Collaborated with a talented team to drive the company's success

IVT Technologies

Associate Software Developer

Feb 2020 - Jul 2020 | Remote

- Crafted captivating interfaces and conquered bugs during the MERN Stack Internship
- Embraced the power of teamwork
- Ignited passion for web development
- Left unforgettable memories and unlocked true potential at IVT

Projects

AI Document Analyzer

Description: Developed an AI-powered document analysis system to automate the extraction of information from various document formats.

Tools: Python, Natural Language Processing (NLP) libraries (such as NLTK, spaCy), TensorFlow, OpenCV, Tesseract OCR

Features:

- Implemented advanced text recognition and analysis algorithms to extract key information from documents.
- Utilized machine learning techniques to classify and summarize documents based on content.
- Integrated features for document organization, search, and retrieval.

Link: <https://www.opendoc.ai/>

AI Doctor Record Session and Generate Prescription

Description: Created a platform to record doctor-patient sessions and automatically generate prescriptions based on diagnoses.

Tools: Python, Natural Language Processing (NLP) libraries, TensorFlow, MongoDB

Features:

- Implemented a user-friendly interface for recording patient symptoms, diagnoses, and treatment plans.
- Utilized natural language processing (NLP) techniques to analyze and interpret conversations between doctors and patients.
- Integrated features for generating prescriptions based on medical history and treatment guidelines.

Link: <https://siy.ai/>

Police Library and Student Management System

Description: Developing a management system for police library and student management using satellite imaging and ML techniques.

Tools: React (VITE), Material UI, Tailwind CSS, Node.js, MongoDB

Features:

- Integrated user authentication
- Implemented data entry and anomaly detection
- Automated reporting and data analysis

Link: <https://ims-client.vercel.app/>

HOSPIPRO – Hotel Management System

Description: Developed a management portal to streamline hotel operations, ensuring efficient workflow and user-friendly interfaces.

Tools: Next.js, Tailwind CSS, Redux, React Native, Paper UI, Node.js, MongoDB

Features:

- Implemented booking management and customer service tools
- Integrated email and SMS notifications using Twilio and MailChimp
- Comprehensive documentation including reports, posters, and slides

Link: <https://hospi-pro-frontend.vercel.app/>

Algomnia

Description: Developed a platform for algorithmic trading and investment analysis, leveraging machine learning to analyze market trends and manage investment portfolios.

Tools: Python, TensorFlow, scikit-learn, React, Node.js, MongoDB, RESTful APIs

Features:

- Implemented machine learning algorithms for pattern recognition and predictive modeling to forecast stock prices.
- Developed interactive dashboards and visualizations for tracking investment performance.
- Integrated real-time data feeds and API integrations for market data analysis.

Link: <https://www.algomnia.com/>

Probate Shepherd

Description: Created a comprehensive platform for managing probate cases and legal documentation, streamlining workflows for attorneys and clients.

Tools: Node.js, Express.js, React, MongoDB, RESTful APIs, Docker, AWS

Features:

- Implemented features for tracking case progress, managing client information, and generating legal documents.
- Designed user-friendly interfaces for attorneys, clients, and court personnel to collaborate efficiently.
- Integrated secure authentication and authorization mechanisms to protect sensitive legal information.

Link: <https://www.probateshepherd.com/>

Master Dashboard

Description: Developed a comprehensive dashboard for monitoring and managing various business metrics and data analytics.

Tools: React, Redux, Tailwind CSS, Node.js, Express.js, MongoDB, AWS Amplify

Features:

- Implemented dynamic data visualizations and interactive charts for real-time data analysis.
- Integrated user authentication and role-based access control to ensure data security and privacy.
- Developed modular and reusable components to enhance scalability and maintainability.

Link: <https://master.d3ph5Hlmhewiob.amplifyapp.com/dashboard>

MCCP Listing

Description: Created a listing platform for managing and displaying multi-category classified ads with advanced filtering and search capabilities.

Tools: Next.js, Tailwind CSS, MongoDB, Vercel

Features:

- Developed advanced search and filtering functionalities to help users find listings quickly and efficiently.
- Implemented user-friendly interfaces for posting and managing classified ads.
- Integrated responsive design principles to ensure optimal performance across various devices.

Link: <https://mccp-listing-eight.vercel.app/>

English Language Proficiency:

Fluent