

# MUHAMMAD AHSAN

## Mern Stack Developer

Lahore, Pakistan | +92-303-5251358

ahsan.dev.404@gmail.com | [LinkedIn](#) | [Github](#)

Passionate and results-oriented MERN Stack Developer with over two 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.

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### Education

**COMSATS University Islamabad Lahore, Pakistan**

Feb 2020 – Jan 2024

*BSCS -Bachelor's in science in Computer Science*

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### 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

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### Work Experience

#### Tekvill

Software Engineer

Feb 2024 - Present | On-site | Lahore

- 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

Associate Software Engineer

Aug 2023 - Jan 2024 | Hybrid | Lahore

- 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

Internship Trainee

Jun 2023 - Jul 2023 | On-site | Lahore

- 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/>

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## English Language Proficiency:

Fluent