

Muhammad Ali

Senior Full-stack Engineer

Specializing in AI

Innovative | Adaptable | Problem solver | Tech-savvy

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SUMMARY

With over 4 years of experience in full-stack development, I specialize in the MERN + Ruby and have extensive expertise in AI. I am skilled in both backend and frontend development, and have worked on almost everything from building AI-driven algorithms to integrating machine learning models and optimizing data pipelines. My experience spans database management, DevOps, API design, testing, security and version control. Throughout my career, I have contributed to 14+ projects across industries like fintech, healthcare, e-commerce, education, and entertainment, using MERN, Ruby and AI to deliver impactful, scalable solutions that drive real business results.

SKILLS

- JavaScript/Typescript
- MongoDB
- RSpec/FactoryBot
- Data Visualization
- Web-Scraping
- NLP
- Supabase/MySQL/PSQL
- AWS/GCP
- Serverless Architecture
- React.js/NextJS/Vue.js
- Ruby
- AI/ML
- Data Analysis
- TensorFlow
- OpenAI
- API Development
- Data Pipelines/ELT/ETL
- Stripe/Paypal
- NestJS/Node.js
- Ruby on Rails
- Python
- Puppeteer
- PyTorch
- LangChain
- JWT-based Authentication
- Redis
- Twilio

PROJECTS

- **WAWCD:** <https://wawcd.com/>
Built an AI-powered WhatsApp CRM, enhancing user engagement with automation features for 25k+ users.
- **Wedlii:** <https://www.wedlii.com.au/>
Developed a full-stack wedding platform, enabling seamless event planning and vendor booking with a robust backend system built on ReactJS and Node.js.
- **Lobium:** <https://www.lobium.ai/>
Created a political data AI pipeline using Python and machine learning algorithms to process and analyze large datasets, providing actionable insights for stakeholders.
- **Majorclarity:** <https://majorclarity.com/>
Enhanced a dynamic career exploration platform for students, utilizing Ruby on Rails, AWS, React and

PostgreSQL to optimize test coverage, fix authorization issues, and improve overall platform performance.

- **GFT-Rewards:** <https://www.gftrewards.com/>
Developed a microservices platform with Crystal Lang (backend) and Flutter Web (frontend), implementing a batch processing system for coupon settlements using AWS SNS and SQS.
- **ChatDaddy:** <https://chatdaddy.tech/>
Built features for a WhatsApp automation tool with ReactJS, TypeScript and microservices, revamping the dashboard with styled-components to improve user experience.
- **Flip-Fam:** <https://flipfam.co.uk/>
Developed a Web3 app for football trivia and NFT prizes, optimizing legacy code and improving runtime performance by 50% using FeatherJS and ReactJS.
- **Beyond the Box Studio:** <https://www.beyondthebox.studio/>
Led the development of scalable web applications for startups, focusing on product direction, code quality, and modern technology solutions.

EXPERIENCE

SpadaSoft - Senior AI & Full-stack Engineer – Lahore, Pakistan June 2024 – Present

- Leading the design and implementation of AI-driven full-stack solutions, using the MERN stack for both backend and frontend architecture.
- I created dynamic user interfaces with React.js, HTML and CSS, making the user experience better and improving performance.
- Built scalable APIs with Node.js and added machine learning models to power AI features on the frontend.
- Developed and maintained AI-integrated mobile applications with React Native, optimizing user experience across iOS and Android with AI features.
- Built responsive web applications optimized for cross-browser compatibility, incorporating AI tools to improve loading times by 35%.
- Collaborated with frontend teams to ensure smooth integration of AI models into React.js components and backend APIs.
- I helped optimize performance in Node.js while integrating AI models to improve database and server-side efficiency.

Devsinc - Full-stack Developer – Lahore, Pakistan Feb 2022 – May 2024

- I worked on building a nightly batch processing system that made everything run more smoothly and reliably, using AWS SNS and SQS to cut down processing times.
- Took the time to update and clean up the code for two big apps, making them faster and easier to use. This also helped reduce the number of support tickets we were getting.
- Spent a lot of time working with MongoDB and SQL/PostgreSQL, optimizing data queries to make things run quicker and more efficiently in Node.js.
- I focused on writing clean, maintainable code that would grow with the project, which really helped cut down on technical debt and made future updates easier.
- Set up tests that cut post-release bugs by 50%, ensuring everything worked perfectly when released.
- Collaborated a lot with the team on code reviews and pair programming, which helped make the code better and speed up release cycles.

Devsinc - Junior Developer – Lahore, Pakistan

Feb 2021 – Jan 2022

- I Worked on improving the web app and admin panel, adding new React features that helped boost user engagement and made the app load a lot faster.
- Actively practiced the DRY (Don't Repeat Yourself) principle, effectively eliminating redundancy and elevating code maintainability and readability across projects, reducing codebase size by 25% and improving development speed by 15%.
- Built APIs with ExpressJS and NodeJS, which made the backend faster and more efficient.
- Collaborated with the team to design and roll out new features, which helped speed up delivery times and made the overall product better.
- Integration of third-party APIs, expanding application functionality and providing users with additional features, which contributed to a 15% growth in user base.
- Developed and maintained comprehensive documentation for codebases and processes, ensuring knowledge transfer and reducing onboarding time for new developers by 40%.
- Set up CI/CD pipelines to automate testing and deployment, which saved time and made our release cycles faster.

EDUCATION

- **Bachelor's in Software Engineering**
Punjab University of Information Technology (PUCIT)
2018 – 2022