Ayan Zubair

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SUMMARY

Full Stack Developer with 2+ years of experience developing, and deploying scalable web applications using JavaScript, TypeScript, Next.js, Node.js, and Nest.js. Skilled in building RESTful APIs, microservices architecture, database optimization, JWT authentication, and real-time WebSocket systems. Experienced in agile environments, CI/CD pipelines, Docker containerization, and cloud-integrated deployments. Proven track record delivering secure, high-performance, and maintainable software across legal tech, SaaS, and international platforms.

EXPERIENCE

MachKnowSoft April 2024 – Present
Full Stack Developer Abbottabad, Pakistan

- Architected and developed full-stack web applications using Next.js, Node.js, Express.js, and Nest.js, supporting 5+ production projects from design to deployment
- Engineered 20+ RESTful APIs powering core business workflows, reducing frontend integration time by streamlining endpoint contracts and documentation
- Optimized backend services and PostgreSQL/MongoDB queries, improving average API response time by 30% and increasing system stability under load
- Implemented JWT-based authentication and role-based access control (RBAC), securing multi-tenant applications with granular permission systems
- Integrated WebSocket-based real-time communication features including live chat and event-driven notifications
- Collaborated in agile sprints with designers, product managers, and QA engineers to consistently deliver production-ready features on schedule
- Conducted code reviews and enforced clean code standards, reducing post-release bugs and improving codebase maintainability

Urraan Codematics January 2024 – February 2024
Backend Engineer Abbottabad, Pakistan

- Developed scalable server-side applications using Node.js and Express.js, handling concurrent user requests efficiently
- Designed and documented RESTful APIs, accelerating frontend integration and reducing miscommunication between teams
- Maintained and optimized MongoDB and PostgreSQL schemas and indexes, improving query performance across data-heavy endpoints
- Identified and resolved critical bugs, improving overall application reliability and uptime

SKILLS

Programming Languages: JavaScript, TypeScript, HTML5, CSS3, SQL
Frontend: React.js, Next.js, Redux, Tailwind CSS, Bootstrap
Backend: Node.js, Express.js, Nest.js, RESTful APIs, WebSockets, Microservices
Databases: PostgreSQL, MongoDB, Redis
DevOps & Tools: Git, GitHub, Docker, CI/CD, NPM, Elasticsearch, Cloudinary
Other: JWT Authentication, RBAC, Agile/Scrum, API Integration, OpenAI APIs

PROJECTS

AI-Powered Legal & Knowledge Automation Platform

- Collaborated with data scientists and AI engineers to integrate AI-driven modules into a production legal tech platform
- Implemented real-time Musheer chatbot using WebSockets, enabling instant AI-assisted legal Q&A for end users
- Built responsive interfaces for AI-based search engine, contract review, and automated contract drafting
- Integrated translation, summarization, and case study generation features using third-party AI APIs
- Developed 15+ reusable UI components with Next.js and Tailwind CSS, reducing future development time
- *Tech Stack:* Next.js, Nest.js, Node.js, PostgreSQL, WebSockets, Tailwind CSS

Lawyer SaaS Platform

- Designed and delivered a multi-tenant SaaS platform for legal professionals, supporting client management, task tracking, document storage, and invoicing
- Automated manual workflows, reducing administrative overhead for legal teams and improving case management efficiency
- *Tech Stack:* Next.js, Node.js, Express.js, PostgreSQL

DAL – International Platform (Saudi Arabia)

- Developed Elasticsearch-powered search engine enabling fast, relevance-ranked full-text search across large datasets
- Integrated OpenAI APIs for intelligent content recommendations and Redis caching to reduce database load by $\sim$40%
- Implemented secure JWT authentication and role-based access control for a multi-role international user base
- *Tech Stack:* Next.js, Nest.js, PostgreSQL, Node.js, Elasticsearch, Redis, OpenAI API

Cleara – Property Services Platform

- Built a service marketplace with Google Maps integration, real-time notifications, and full CRUD functionality
- *Tech Stack:* Next.js, Node.js, Express.js, MongoDB

Videotube

- Developed a full-featured video-sharing platform with subscriptions, watch history, likes, comments, and Cloudinary-based media management
- *Tech Stack:* Node.js, Express.js, MongoDB, Cloudinary

EDUCATION

COMSATS University Islamabad – Abbottabad Campus September 2019 – September 2023
Bachelor of Science in Software Engineering Abbottabad, Pakistan

LANGUAGES

English (Professional), Urdu (Native)