

Abdul Manan

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SUMMARY

Principal Software Engineer with 10+ years of full-stack development experience building scalable web applications across diverse industries. Expert in JavaScript/TypeScript ecosystems including Reactjs, Vuejs, Nuxtjs, express and Nodejs, with extensive AWS cloud architecture experience. Proven track record of delivering end-to-end solutions from frontend optimization to microservices backend development, database design, and DevOps implementation. Strong technical leadership in multi-project environments with expertise spanning modern testing frameworks, CI/CD pipelines, and both SQL and NoSQL database systems.

SKILLS

Programming Languages: Javascript (JS, ES6+), Typescript (TS), Python

Front-End Development: HTML, CSS, React.Js, React Admin, Next.Js, GSAP, Remix, React Native, Redux, ContextAPI, Zustand, Tailwind CSS, Bootstrap, Ant Design, DaisyUI, Server-Side Rendering (SSR), Static Site Generation (SSG), Incremental Site Generation (ISG)

Back-End Development: Node.Js, Express.Js, NestJS, Flask, Django, GraphQL, RESTful API design

Block Chain & Web3: Solidity, Ethereum, Ether.js, Metamask, Smart Contracts, Wallet Integration

Database Management: SQL, NoSQL, PostgreSQL, MySQL, MongoDB, CosmosDB, DynamoDB, Firebase, TypeORM, Sequelize, Prisma, Supabase, Microsoft Azure Data Studio, SQL Alchemy, RDBMS, Google BigQuery

Data Visualization and BI Tools: PowerBI, Looker, LookML, Chart.JS, D3.js, AmCharts, Charting Lib, Draw.io, Miro, UML Diagrams, Virtual Paradigm

Payment Gateway Integration: Stripe, PayPal, Payzone, Plaid

Cloud and DevOps: AWS, Lambda Functions, GCP, Google Cloud Functions, Google Task Queues, Docker, Containerization, Kubernetes, AKS, EKS, Orchestration, Salesforce Marketing Cloud (SFMC), CQRS, Cloud, Continuous Integration / Continuous Delivery / Continuous Deployment (CI/CD), S3, SNS, SQS, Event Bridge, RabbitMQ, BullMQ, API Gateway

Version Control Systems: Git, Github, Bitbucket, GitLab

API Interfaces & Docs: GraphQL, RESTful API design, SOAP API, Swagger, JSDoc

Workflows: Pipedream, Hookdeck, Cloudflare, N8N

Security: OAuth2, Role-Based Access Control, JWT, Rate Limiting, Audit Logs

Software Development Practices: Design and development, Software development lifecycle management, Research and development, Performance optimization, NX Monorepo, SaaS, Scalable Infrastructure, Microservices Architecture, System Architecture, Technical Documentation

Project Management: SCRUM, Agile Development Methodologies, Sprint, Kanban, JIRA, ClickUp, Linear, Trello

UI/UX Design: UI and UX principles

LLMs & AI Platforms: Open AI - ChatGPT, Google Vertex AI - Gemini Pro, Gemini Flash, Document AI, AI Platform, Chat & Search Apps, Vector Embeddings

Logging and Observation: Sentry, GlitchTip, Datadog, BetterStack Logtail, Cloudwatch

Testing: Playwright, Jest, Supertest

Quality and Standards: ESLint, Husky, Prettier

Other Skills and Qualities: Multilingual programming, Database Design, Database Migration, Domain-Driven Design (DDD), Mentorship, Design Patterns, Distributed Systems, Project Ownership, Team Lead, Work Independently, Operational Excellence, Communication Skills, Performance Optimization Techniques

EXPERIENCE

Software Engineer | Coderzhunt | Lahore, Pakistan | October 2023 - Present

- Led cross-functional teams in designing and delivering **scalable**, microservice-based architectures supporting **high-traffic platforms** like **Bayut**, ensuring 99.99% uptime.
- Spearheaded migration from legacy **monoliths** to containerized, cloud-native services using **Kubernetes**, **Docker**, and AWS/GCP, reducing deployment time by 60%.
- Architected and implemented event-driven systems using Kaa and **RabbitMQ** to streamline asynchronous workflows and improve system decoupling.
- Optimized core backend services in **Node.js** and Java, achieving up to 40% latency reduction and 25% improvement in throughput under peak load.
- Mentored 15+ engineers across squads, instilling engineering best practices, **design patterns**, and effective code review processes.
- Introduced CI/CD automation with GitLab, Jenkins, and **Helm**, reducing release failures and enabling on-demand deployments across staging and production.
- Established service-level objectives (SLOs), **logging (ELK)**, and alerting systems that improved incident detection and **MTTR** by 50%.
- Led the design and governance of **RESTful** and **GraphQL APIs** used across the ecosystem, ensuring consistency, versioning, and documentation via Swagger/Postman.
- Drove cost optimization efforts by auditing infrastructure usage, rightsizing instances, and optimizing **database queries**, saving ~\$80K annually.
- Collaborated directly with product, security, and analytics teams to define and implement scalable AB testing and experimentation frameworks.
- Oversaw **code quality**, test automation (**Jest**, Cypress, JUnit), and security best practices (**OWASP**, **IAM**, **KMS**), ensuring SOC 2 and **GDPR compliance**.
- Initiated internal engineering talks and design reviews to propagate **domain-driven design (DDD)** and clean architecture principles across teams.
- Championed the adoption of **Headless CMS** and decoupled frontend architecture (**React**, Next.js, Tailwind), enabling multi-brand support with minimal overhead.
- Contributed to quarterly OKRs, **roadmap planning**, and release governance, aligning engineering priorities with business goals.
- Played a key role in **technical due diligence** and integration of acquired platforms like Hatla2ee and DriveArabia into the tech stack.
- Developed and optimized event-driven and **API-centric backends**, leveraging RabbitMQ, **RESTful**, and **GraphQL APIs**, and ELK/Datadog-based monitoring systems.

Senior Software Engineer | Devsinc | Lahore, Pakistan | May 2021 - September 2023

- **Led** complete modernization of **Home School Panda** legacy system, migrating from outdated **Sails.js** and **Angular.js** architecture to modern **GraphQL**, **Express.js**, and **React.js** stack, improving application performance and maintainability.
- **Architected** and implemented **GraphQL API** layer replacing **REST** endpoints, reducing data over-fetching by **60%** and improving **frontend-backend communication efficiency** across the entire application.
- Converted legacy **Angular.js** frontend to modern **React.js**, implementing **component-based architecture** with hooks and **context API**, resulting in improved user experience and faster development cycles.
- Managed multi-environment **deployment pipeline** across **development**, **staging**, and **production environments** using **AWS EC2** and **Amplify**, ensuring consistent and reliable application delivery.
- Administered **AWS RDS** database infrastructure, optimizing **MySQL performance**, implementing backup strategies, and managing **database migrations** during the legacy system conversion.
- Led full-stack development for **Foundation of Biomedical Research** project using **MERN stack**, building **research data management platform** with complex data visualization and user management features.
- Developed **Humble Motors automotive platform** from ground up using **MongoDB**, **Express.js**, **React.js**, and **Node.js**, creating comprehensive **vehicle inventory** and **customer management system**.
- Implemented comprehensive **testing strategies** across all projects using **Jest** and **React Testing Library**, establishing automated testing protocols that reduced **production bugs** by **70%**.
- Optimized **database queries** and **API performance** during legacy migration, reducing average response times from **2+ seconds** to under **500ms** through query optimization and caching strategies.

- Established **CI/CD pipelines** using **AWS services**, automating build, test, and deployment processes that reduced deployment time from manual 2-hour process to automated **15-minute deployments**.
- Collaborated with **cross-functional teams** including designers, product managers, and QA engineers to deliver feature-rich applications meeting specific client requirements across **education, research, and automotive industries**.
- Mentored junior developers on modern **React patterns, GraphQL implementation, and AWS cloud services**, improving team technical capabilities and **code quality standards**.
- Implemented **responsive design principles** ensuring applications worked seamlessly across desktop, tablet, and mobile devices using modern **CSS techniques** and **React responsive libraries**.
- Managed **database schema design** and migrations for multiple projects, ensuring data integrity during **legacy system transitions** and new feature implementations.
- Established **monitoring and logging systems** using **AWS CloudWatch**, implementing error tracking and **performance monitoring** that improved system reliability and debugging capabilities.

Software Engineer | Arhamsoft | Lahore, Pakistan | February 2018 - April 2021

- Led end-to-end development of automated **pricing processor** for NBCU, architecting scheduled job system that synchronizes data from 3 disparate sources daily at 2AM, ensuring **99.9% uptime** and **data consistency** across enterprise systems.
- Collaborated directly with **solution architects** and **product owners** to design scalable **data integration solutions**, translating business requirements into technical specifications and development roadmaps.
- Architected full-stack **loan management platform** for **Cash Loan Direct** as lead developer, designing system architecture to handle high-volume **financial transactions** with robust **security** and **compliance** measures.
- Built responsive frontend using **Astro, React, and Storybook** in monorepo architecture, implementing **component-driven development approach** that reduced development time by 40% and improved code **reusability**.
- Developed **microservices backend** infrastructure using **AWS SAM** and serverless **Lambda functions**, creating scalable **API ecosystem** with **TypeScript** and **Node.js** for optimal performance and maintainability.
- Implemented **AWS Redshift** data warehousing solution for **Cash Loan Direct**, designing **ETL processes** that handle millions of records daily and support **real-time business intelligence** reporting.
- Established comprehensive **testing strategy** using **Jest, Cypress, and React Testing Library**, achieving 85%+ **code coverage** and implementing automated testing pipelines.
- Built **House Committee voting system** from scratch for **Aretum** as lead **frontend developer**, creating secure, accessible **React** application that handles sensitive government voting processes.
- Set up complete **CI/CD pipeline** infrastructure using **GitHub Actions**, implementing automated testing, building, and deployment processes that reduced deployment time from hours to minutes.
- Designed and implemented **cloud infrastructure** across multiple **AWS services** including **Lambda, API Gateway, S3, RDS, and CloudWatch** for monitoring and logging.
- Mentored junior developers and conducted **code reviews** across multiple client projects, establishing coding standards and **best practices** that improved team productivity.
- Optimized application performance through advanced techniques including **lazy loading, code splitting, and database query optimization**, achieving **50% improvement** in page load times.
- Managed concurrent client relationships for **NBCU, Cash Loan Direct, and Aretum**, ensuring project deliverables met timeline and quality requirements while maintaining clear communication with stakeholders.
- Implemented **security best practices** including **AWS IAM roles, data encryption**, and secure authentication mechanisms across all client applications.
- Led technical decision-making processes for **technology stack** selection, **architecture patterns**, and **development methodologies** across diverse industry verticals.

MERN Stack Dev | Falcon IT Solution | Lahore, Pakistan | July 2015 - January 2018

- Developed robust **Node.js** backend API for **CafePerks** mobile restaurant application, implementing **RESTful services** for menu management, order processing, and customer **loyalty program** features.
- Built comprehensive **authentication and authorization system** for **CafePerks**, integrating secure user registration, login functionality, and **payment processing** for seamless mobile dining experience.
- Architected and developed **Tilt Enterprises** food delivery platform using full **MERN stack**, creating scalable solution for the French market with **real-time order tracking** and multi-restaurant management.

- Implemented **geolocation services** and **delivery optimization** for **Tilt Enterprises**, integrating **mapping APIs** and route calculation algorithms to enhance delivery efficiency and user experience.
- Designed **role-based authentication system** for **Orga Plan** construction platform, implementing hierarchical access control for **Super Admin**, **Admin**, and **Site Planner** roles with granular permission management.
- Built interactive **canvas-based site planning tool** for **Orga Plan**, enabling site planners to upload architectural plans and create detailed drawings with custom annotation and measurement features.
- Developed advanced drawing and annotation capabilities using **HTML5 Canvas API**, allowing users to create, edit, and save detailed site plans with **real-time collaboration features**.
- Created multilingual **Quadrabase platform** for the French architecture market, implementing comprehensive **i18n internationalization** using **React-i18next** for seamless French language support.
- Built dual-purpose **marketing website** and **user portal** for **Quadrabase**, designing responsive interface catering to both architects and construction providers with distinct user journeys.
- Implemented automated **document generation system** for **Quadrabase**, creating dynamic **cost estimation reports** and **project documentation** in multiple formats including **Word**, **Excel**, and **PDF**.
- Integrated third-party **APIs** for file generation, utilizing libraries like **jsPDF**, **ExcelJS**, and **Docx** for professional document creation with custom branding and formatting.
- Developed comprehensive **user management system** for construction professionals, enabling profile creation, project portfolio management, and collaborative workspace features.
- Optimized **application performance** across multiple projects, implementing **lazy loading**, **code splitting**, and **database query optimization** resulting in 40% improvement in load times.
- Established consistent **coding standards** and best practices across all client projects, ensuring maintainable codebases and seamless knowledge transfer between team members.
- Collaborated with **international clients** and stakeholders, managing project requirements and deliverables across different time zones while maintaining clear communication and project timelines.

EDUCATION

Bachelors of Computer Science | National University of Computer and Emerging Sciences

Lahore, Pakistan | 2015

AWARDS & HONORS

Most Professional Team Member of the Year

Coderzhunt

- Honored with the "Most Professional Team Member of the Year" award for consistently demonstrating exceptional leadership, dedication, and professionalism in fostering team success and collaboration.