MOHAMMED SHUHEB

Full Stack Software Engineer | JavaScript, TypeScript, React.js, Next.js, Node.js

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SUMMARY

Full Stack Software Engineer with 4+ years of experience designing and building enterprise-grade, large-scale applications with JavaScript, TypeScript, React.js, Next.js and Node.js. At Kandra Digitals I build SkillDeck, a multi-tenant SaaS platform of 22 microservices and 6 frontend apps serving 50+ organizations and 1,000+ active users at 99% uptime, with a focus on scalability, security and performance. I ship containerized services with Docker and Kubernetes through CI/CD, have built a Generative AI (RAG) knowledge assistant with OpenAI and vector search, and lead a team of 3 engineers through code reviews, estimation and delivery.

SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3
Frontend: React.js, Next.js, Single Page Applications, Redux Toolkit, React Query, Tailwind CSS, Material-UI, React Native
Backend & APIs: Node.js, NestJS, Express.js, Fastify, RESTful APIs, OpenAPI/Swagger, WebSockets, RabbitMQ, Microservices
Cloud & DevOps: Docker, Kubernetes, Helm, AWS (EC2, S3, Lambda, IAM), CI/CD (GitHub Actions, Jenkins), Git
Data & Generative AI: PostgreSQL, MongoDB, Redis, OpenAI, Retrieval-Augmented Generation (RAG), Vector Search
Security & Observability: JWT Authentication, RBAC, Multi-tenant Data Isolation, OpenTelemetry, Distributed Tracing

EXPERIENCE

Full Stack Developer | Kandra Digitals, Bengaluru **Oct 2022 – Present**

SkillDeck: enterprise multi-tenant SaaS platform (CMS, CRM, LMS, billing, ticketing) with 22 microservices and 6 frontend apps, serving 50+ organizations and 1,000+ active users at 99% uptime.

- Lead development of large-scale features across the full stack, delivering 15+ production modules (CMS, CRM, LMS, billing, payments) from design and estimation through testing, deployment and support.
- Lead frontend architecture for 6 React.js and Next.js single page applications in a TypeScript monorepo, using Redux Toolkit, React Query and Tailwind CSS for responsive, data-heavy interfaces.
- Design and build REST APIs and backend services in Node.js (NestJS, Express.js, Fastify) with validation, error handling and PostgreSQL/MongoDB integration, documented through OpenAPI/Swagger specs.
- Designed event-driven communication between microservices with RabbitMQ, powering notifications, payments, scheduling and other background workflows.
- Containerized services with Docker and deploy each microservice independently on Kubernetes with Helm on AWS, with its own scaling across isolated staging and production environments.
- Built CI/CD pipelines with GitHub Actions and Jenkins for automated builds and deployments, making releases about 60% faster.
- Secured the platform with JWT authentication, role-based access control, tenant data isolation and a custom-domain routing layer built as a dedicated resolver service.
- Cut page load times by about 50% through code splitting, lazy loading and caching on the frontend, plus database indexing, query tuning and Redis caching on the backend.
- Right-sized cloud infrastructure and removed unused resources, reducing monthly cloud costs by about 55% ($4,000 to $1,800).
- Investigate and resolve production issues across the UI, API and messaging layers, tracing them through logs and distributed traces to ship fixes with minimal disruption.
- Lead and mentor a team of 3 engineers through code reviews, estimation and technical guidance, and work with product and stakeholders on scope and priorities.

Digital Publishing Developer (Intern) | Dataactor e-Publisher **Dec 2021 – Jan 2022**

- Built XML/XSLT transformation processes to convert raw content into structured XML for e-magazine publication.

PROJECTS

AI Knowledge Assistant (Generative AI) | React, Node.js, OpenAI, MongoDB, Vector Search

- Designed and built a Retrieval-Augmented Generation (RAG) assistant that answers user questions from product documentation and FAQs.
- Implemented OpenAI embeddings, semantic vector search and GPT-based generation to return context-aware answers grounded in retrieved content.

API Observability Platform | TypeScript, OpenTelemetry, Fastify, Express.js, MongoDB

- Built an OpenTelemetry-based platform capturing request lifecycles, latency, error rates, logs and distributed traces across microservices.
- Wrote pluggable middleware for Express.js and Fastify so any Node.js service can be monitored with minimal code changes.

ShortLi: URL Shortener | Next.js, Node.js, MongoDB, Redis, Cloudflare Workers

- Built a URL shortening service with link analytics, team collaboration and edge-based redirection on Cloudflare Workers.
- Used Redis caching to support high-throughput redirects with sub-millisecond lookups under heavy traffic.

EDUCATION & CERTIFICATIONS

Master of Computer Applications (MCA) | St. Francis College, Bengaluru **2022 – 2024**

Bachelor of Computer Applications (BCA) | St. Francis College, Bengaluru **2019 – 2022**

AWS Certified Cloud Practitioner, Amazon Web Services (valid through July 2027)