

Mohammed Ashfaq Nisar

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Summary:

Full Stack Developer with **6+ years** of experience architecting and deploying end-to-end solutions. Skilled in migrating legacy systems, optimizing front-end performance, and implementing robust CI/CD pipelines. Adept at collaborating with cross-functional teams, leading agile sprints, and mentoring developers in best practices. Google Cloud Associate Engineer certified, and modernizing legacy systems and delivering impactful user experiences.

Core Skills:

Languages & Frameworks: TypeScript, JavaScript, Java, React, Next.js, TRPC, NestJS, Spring Boot, Fastify, Apollo Graphql

UI & Tooling: Redux Toolkit, RTK Query, Tailwind CSS, React Router, React Hook Form, React PDF, SWC Compiler, Vite, Pnpm, ESLint, Prettier

Databases & ORMs: PostgreSQL, Firebase, TypeORM, Drizzle ORM

Testing & Integrations: Vitest, Jest, Cypress, Salesforce, Razorpay, Payment Integrations, Pub-Sub

Cloud & DevOps: AWS, Google Cloud, Docker, GitHub Actions, Bitbucket, Vercel, Sentry, New Relic

Authentication & Other tools: BetterAuth, Auth0, Okta, Clerk, Bun, Git, JIRA, Turborepo

Professional Experience:

Rhythm Healthcare: Full Stack Engineer

July 2023 – Till Date

At Rhythm Management Group, I played a key role in building and maintaining HIPAA-compliant, full-stack solutions for cardiac care and electronic health record (EHR) systems used by over 400,000 patients and practitioners.

- Designed and built an AI-driven medical triage system using AWS Bedrock to automatically prioritize patient transmissions, reducing manual triage workload. Implemented asynchronous HL7/XML processing via SQS, built custom parsing with PDF-content removal and optimized regex pipelines for large files, integrated Bedrock with resilient retry logic, and delivered a robust API layer which acts as both with full audit logging and error handling, processed 10,000+ HL7/XML transmissions per day automatically.
- Architected and developed the front-end application from scratch using React 18, TypeScript, and Vite, migrating from Chakra UI to Mantine UI across 400+ components. Implemented scalable state management with Redux Toolkit and RTK Query (20+ API slices), built complex PDF generation and batch download systems, and integrated Okta authentication with PKCE flow.
- Migrated a mission-critical 2M+ record billing system from a JSON data model to a normalized relational schema, boosting data integrity and cutting manual corrections by 80%, all while maintaining 100% system uptime during the rollout.
- Reworked API endpoints with strong validation, backend triggers, and automated the billing code assignments. Removed tightly coupled and inconsistent business logic from and redesigned it improving response speeds by 50%.
- Integrated SWC Compiler into the Nest JS, cutting build times from 5 minutes to ~2-3 minutes and reducing cold starts by 70%. Standardized platform logging with Pino, replacing console logs and enabling structured, filterable logs in AWS CloudWatch which significantly improved debugging efficiency.
- Resolved 20+ major production issues, reducing bug resolution time by 60%. Updated the bitbucket pipelines to reduce the build time 40% with smart caching using Turborepo.

Ezerka Technology Solutions: Technical Lead & Co-founder

Sep 2021 – July 2023

Co-founded and led development for multiple full-stack MERN applications, driving architecture, delivery, and team execution for diverse client projects. Managed a 5-8 engineer team, owned sprint planning, user story refinement, code reviews, and stakeholder communication.

- Developed advanced PDF report generation systems in React using @react-pdf/renderer, implementing custom fonts, multi-page layouts, and dynamic rendering pipelines for client-specific report formats.
- Implemented automated E2E testing with Playwright, architecting scalable test suites, integrating tests into CI/CD workflows, and improving release reliability by catching UI regressions before deployment.
- Acted as the primary technical person for client engagements, producing clear technical documentation, aligning requirements, mitigating delivery risks, and ensuring project outcomes met timelines and expectations.
- Automated training dataset creation, generating thousands of synthetic patient form samples with diverse handwritten fonts and layout variations, increasing OCR model accuracy by 40%. Built a responsive, intuitive NextJS front-end with tailwind, enabling users to upload scanned forms, visualize extracted fields, validate OCR outputs, and apply corrections in real time before final submission.
- Owned backend reliability and data integrity, refactoring critical business rules into PostgreSQL triggers to enforce transactional consistency and reduce error-driven support tickets
- Provided hands-on technical leadership, mentoring engineers on Git practices, CI/CD, cloud deployments, scalable MERN architecture, and code quality standards. Formalized documentation and review processes.

Cognizant Technology Solutions: Programmer Analyst Trainee

Dec 2020 – Aug 2021

Played a key role in revamping Verizon's enterprise email infrastructure by architecting data-driven HTML templates, developing backend microservices for template processing and email delivery, and creating a React interface used by internal teams to manage and send customer communications.

- Built Spring Boot microservices exposing secure APIs for template rendering, data binding, and outbound email delivery, enabling UI teams to preview, customize, and trigger emails directly from internal dashboards.
- Developed React front-end interfaces for template preview, form-based data input, and email dispatch workflows, enabling non-technical business teams to generate and send communication campaigns without engineering involvement.
- Redesigned Verizon's enterprise email templates, creating 20+ dynamic, data-driven HTML email templates used for promotional, transactional, and customer-specific communications.
- Collaborated cross-functionally with QA, DevOps, and product owners to validate templates across multiple environments, integrating CI/CD pipelines for deployment of template updates.
- Conducted internal workshops introducing teams to Spring Boot microservices and React development patterns, accelerating adoption of modern full-stack practices within the department.
- Completed a comprehensive full-stack engineering training program, gaining foundational expertise in React, Java, SQL, microservice design, and scalable enterprise patterns.

Rubicon Red: Software Developer Intern

Dec 2019 – April 2020

Contributed in modernizing logistics application by migrating the React codebase from class components to functional components, building new dashboard features, and improving maintainability through reusable components and linting standards.

- Led the migration of an enterprise 3PL client application from React class components to functional components with Hooks, improving performance, reducing technical debt, and standardizing the codebase for long-term maintainability.
- Delivered critical features under aggressive deadlines, coordinating with designers, QA, and project managers to ensure timely releases for the 3PL product rollout.
- Improved build size and maintainability by creating reusable components, optimizing bundling, and implementing custom ESLint rules to enforce consistent coding standards.

Education:

Bachelor's In Computer Science & Engineering: 7.74 / 10 CGPA

2016 - 2020

Vidya Jyothi Institute of Technology

Hyderabad, India

Relevant Courses: Web Development, Computer Networking, Cloud Computing, Internet of things, Object Oriented Analysis & Design, Java Programming & Database Management Systems.

Projects:

Adani Ports Invoice Reconciliation System: React | Fastify | Postgresql | Razorpay

- Designed a per-invoice virtual account mapping system backed by PostgreSQL and Razorpay, enabling automated reconciliation by matching transaction metadata to invoice records and significantly reducing manual errors and need to validate the amount in the bank and increasing the efficiency by 50%.
- Built an admin dashboard in React for customer management, payment tracking, and invoice lifecycle oversight, improving operational efficiency. Built audit logging and immutable transaction history, ensuring traceability for compliance, reconciliation reviews, and dispute workflows. Containerized the full application stack using Docker for the deployments.

Achievements & Honor's:

- Certified Google Cloud Associate Engineer.
- Won the first prize in Smart India Hackathon 2020, Finalist – Smart India Hackathon 2019.
- One of the Google Developer Student Club leads from India.
- Best UI/UX Design Award – IBM Hack 2019.
- NASA Space Apps Challenge 2018 Winner (Developed a Mars Habitat game).

Part of Communities:

Google Developer Student Clubs • Developer Student Society • VJIT HITA