

# Sri Ram Mohan Nyshadham

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## FULL STACK DEVELOPER

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Full Stack Developer with 6+ years of experience delivering production-grade web, mobile, and AI-powered solutions. Led development of a HIPAA-compliant clinical platform integrating real-time WebSocket streams and LLM-driven documentation agents, boosting clinician decision speed and suggestion relevance. Designed and deployed cloud-native applications on Google Cloud, automating CI/CD pipelines for scalable performance. Seeking to apply full-stack and AI expertise to drive innovative, user-centric products.

## WORK EXPERIENCE

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### Full Stack Developer, Atelia Software Inc

June 2021 – Present

- Built and maintained large-scale, HIPAA-compliant full-stack applications using ReactJS, React Native, Node.js, NestJS, and TypeScript, supporting patient, doctor, hospital, and support portals, which enabled secure, compliant access for all user groups.
- Developed real-time clinical applications using native WebSockets to stream live doctor-patient conversations and generate AI-driven clinical suggestions during active sessions, reducing latency and helping clinicians make faster decisions.
- Designed and delivered client-facing AI features including LLM-powered chat, live scribe workflows, and RAG-based clinical documentation agents used daily in production.
- Implemented prompt engineering, embeddings, pgvector-based retrieval, and agentic workflows to orchestrate multi-step AI reasoning pipelines, which increased the relevance of generated clinical suggestions.
- Led migration of mobile applications from Flutter to React Native, improving maintainability and accelerating cross-platform feature delivery.
- Built and deployed React Native applications to the Apple App Store and Google Play Store, including native modules and BLE integrations, delivering functional mobile apps for iOS and Android users.
- Architected backend services using Node.js and PostgreSQL, exposing REST APIs consumed by web, mobile, and AI workflows, which enabled reliable data access across platforms.
- Deployed full-stack systems on Google Cloud Platform using Cloud Run, GKE, Firebase Hosting, Cloud IAM, VPC networking, and managed PostgreSQL, providing scalable and secure infrastructure.
- Designed CI/CD pipelines with GitHub Actions for automated testing, container builds, and multi-environment deployments, which streamlined releases and reduced manual effort.
- Integrated third-party APIs and services including Twilio Streams and Webhooks, authentication providers, and external healthcare systems, allowing real-time communication and secure data exchange.
- Optimized ReactJS performance using memoization, state isolation with Zustand, and controlled re-render strategies, resulting in smoother interactions on complex real-time screens.
- Designed shared TypeScript contracts between frontend and backend services to ensure type safety and reduce API integration defects.
- Built fault-tolerant backend services with structured logging, retry mechanisms, and graceful degradation, which kept real-time clinical sessions running with minimal downtime.
- Applied database indexing and query-optimization techniques in PostgreSQL, enabling low-latency RAG retrieval and handling high-volume workloads without performance bottlenecks.
- Developed background workers and asynchronous pipelines with Nest.js and Google Cloud Storage to handle AI post-processing tasks such as summarization and document generation, improving processing efficiency.
- Mentored backend, frontend, and mobile engineers and introduced code review and CI/CD practices, raising code quality and supporting faster sprint delivery.

## Full Stack Developer, Eficens Systems LLC (Flair Technologies)

March 2020 - May 2021

- Engineered a full-scale CRM platform covering payroll, timesheets, placements, invoicing, clients, onboarding, and document workflows using React.js, Material UI, Redux, and Firebase, demonstrating proficiency in multiple programming languages and software systems.
- Built 40+ reusable React components and optimized rendering using memoization and selector-based state management, reducing UI load times by 30%, applying design patterns and best practices.
- Developed backend business logic using Node.js, Express, and Firebase Cloud Functions including payroll computations, consultant margins, vendor bill cycles, and automated tax/withholding calculations; performed Unit Testing and Debugging to maintain reliability and resolve issues.
- Implemented secure RBAC using Firebase Auth, Firestore rules, and scoped permissions for recruiters, finance teams, and executives, ensuring system security.
- Reduced production defects by resolving 150+ issues across payroll, invoice reconciliation, placement mismatches, form validations, and authentication flows, exercising judgment and troubleshooting expertise.
- Enhanced CI/CD pipelines using Firebase Hosting, GitHub Actions, and automated deployments to dev/stage/prod environments; integrated Python scripting for build orchestration and established branch-based code review workflows, supporting continuous integration.

## PROJECTS

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### AI Voice and Chat Agents

Designed real-time AI voice and chat agents using WebSockets, Twilio Streams, and LLMs to automate patient intake, live scribing, and conversational workflows with agent-based orchestration.

### React Native iHealth SDK

BLE-based vitals collection SDK enabling auto-pairing, encrypted sync, and streamlined physician workflows, applying Software Development best practices. Integrated with backend for secure vitals persistence, demonstrating knowledge of DB interactions.

## EDUCATION

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### Kennesaw State University, Marietta, GA

Master of Science, Computer Science

### SITE, Tadepalligudem, India

Bachelor of Technology, Computer Science

## SKILLS

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Programming Languages	TypeScript, JavaScript, Bash, SQL, Node.js
Frameworks & Libraries	Nest.js, Express.js, React, React Native, Next.js, Redux
Cloud Services	Firebase Functions, Load Balancer, GCS, Firebase Hosting, Cloud Run, Cloud SQL, Secrets Manager, Google Kubernetes Engine
DevOps & CI/CD	GitHub Actions, CI/CD, Docker, Serverless Deployments, Vercel, Git
Databases	PostgreSQL, Firebase Firestore, NoSQL, Relational DB Experience
Tools & Platforms	Twilio, iHealth SDK, Prisma, Orval, Monorepos