

Sriram

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PROFESSIONAL SUMMARY

Full Stack AI Engineer with 6+ years shipping production **web**, **mobile**, and **AI**-powered systems in **TypeScript**, **React**, **Next.js**, **Node.js**, and **Python**. Top contributor on a **HIPAA**-compliant clinical platform of 24 services and 12 apps, growing from contract developer to lead. Built real-time **WebSocket** clinical workflows and an **agentic LLM** layer of 30+ agents used daily by clinicians for documentation. Cut infrastructure costs by roughly 50% by moving production from **GKE** to **Cloud Run**, and own delivery end to end with **Terraform/OpenTofu** and **GitHub Actions** on **GCP**. Outside work, designed and shipped five products solo, including an **end-to-end encrypted** chat app, a **GitHub diff viewer**, and two **AI-driven mobile apps**.

WORK EXPERIENCE

Full Stack AI Engineer – Atelia Software Inc

Aug 2023 | Marietta, GA

- Own the full stack of a **HIPAA**-compliant clinical platform: 24 **backend services**, 9 **web apps**, and 3 **mobile apps** in **TypeScript**, **React**, **Next.js**, **React Native**, **Node.js**, and **NestJS**.
- Ranked top contributor among 38 engineers with 2,700+ commits and 590 **pull requests**; rejoined Atelia's US team on CPT in 2023 after contracting for its India entity, full-time since June 2024.
- Architected the platform's **agentic AI** layer on **Vertex AI** — 30+ specialized agents and 200+ tools with multi-agent routing, checkpointed state, and human-in-the-loop interrupts — combining **prompt engineering**, **embeddings**, and **pgvector** retrieval to drive multi-step clinical reasoning and raise suggestion relevance.
- Delivered client-facing **AI** features (**LLM** chat, live scribe, and **RAG** documentation agents) over native **WebSocket** streams of live doctor-patient sessions, with Temporal workers and 14 scheduled jobs handling post-visit summarization and document generation; in daily production use across doctor, hospital, and patient apps.
- Designed **Node.js** and **PostgreSQL** services exposing ~950 **REST** endpoints and a 480-model **Prisma** schema to web, mobile, and **AI** workflows; indexing and query optimization cut response times by 40% for high-volume retrieval.
- Cut **React** render time by 30% on complex real-time clinical screens through memoization and **Zustand** state isolation, and enforced shared **TypeScript** contracts between frontend and backend.
- Moved production from **GKE** to **Cloud Run** (**Cloud SQL**, **VPC**, **IAM**) via **Terraform/OpenTofu** across 14 modules, cutting infrastructure costs by ~50%; 21 **GitHub Actions** workflows drove 10,000+ deploys and 500+ releases.
- Led the 2025 migration of three **mobile apps** from **Flutter** to **React Native** and shipped 50+ **App Store** and **Google Play** releases in 14 months, with native modules and **BLE** device integrations.
- Forked and productionized an open-source **PostgreSQL change-data-capture** pipeline (WAL-based, no triggers or schema changes) as the platform's row-level audit log (78 commits, 25 pull requests).
- Integrated **Twilio Streams**, **webhooks**, **authentication** providers, and external healthcare systems for real-time communication and secure data exchange.
- Reviewed 840+ **pull requests** as the team's primary **code reviewer**, mentored backend, frontend, and mobile engineers, and established the team's **code review** and **CI/CD** practices.
- Tech: **TypeScript** · **React** · **Next.js** · **React Native** · **Node.js** · **NestJS** · **PostgreSQL** · **pgvector** · **Vertex AI** · **Hugging Face** · **Mastra** · **LangGraph** · **RAG** · **WebSocket** · **Terraform** · **Kubernetes** · **GKE** · **Cloud Run** · **Cloud SQL** · **Pub/Sub** · **IAM** · **GitHub Actions** · **Twilio** · **BLE**

Software Engineer – Atelia Software

Jun 2021 – Jul 2022 | Remote (India)

- Built the first Atelia Health **mobile apps** in **Flutter** for **iOS** and **Android**, enabling doctors to monitor patients remotely with video calls and secure messaging on a **Firebase** backend (**Firestore**, **Firebase Auth**, **Cloud Functions**).
- Integrated **Bluetooth Low Energy** vitals devices for blood pressure, heart rate, and temperature, capturing readings from the patient's phone and syncing them to clinicians in near real time.
- Designed **Firestore** data models and security rules for patient, provider, and vitals data with **role-based access** to **HIPAA**-sensitive records and **Cloud Functions** for threshold alerts and notifications.
- Shipped the Doctor and Patient apps to the **Apple App Store** and **Google Play** and supported early clinical users through their first production releases.
- Tech: **Flutter** · **Dart** · **Firebase** · **Firestore** · **Firebase Auth** · **Cloud Functions** · **BLE** · **iOS** · **Android**

Software Engineer – Eficens Systems

Mar 2020 – May 2021 | Remote (India)

- Built the first version of FLAIR, Eficens's workforce-management platform for staffing firms — payroll, timesheets, placements, invoicing, onboarding, and document workflows — in **React**, **Material UI**, **Redux**, and **Firebase**.
- Implemented **role-based access control** with **Firebase Auth** and **Firestore** security rules; FLAIR ran Eficens's own staffing operations and is now sold as a standalone product.
- Created a library of 40+ reusable **React** components and optimized rendering with memoization and selector-based **state management**, reducing UI load times by roughly 30%.
- Implemented payroll, consultant-margin, and tax-withholding calculations in **Node.js**, **Express**, and **Firebase Cloud Functions**, with **unit tests** covering every money path in production.
- Resolved 150+ production issues across payroll, invoice reconciliation, form validation, and **authentication** flows as one of the top three contributors to a 2,700-commit codebase.
- Set up dev, stage, and prod **deployment pipelines** on **Firebase Hosting** with branch-based **code review**, so every change shipped through a reviewed, repeatable path.
- Tech: **React** · **Material UI** · **Redux** · **Firebase** · **Firestore** · **Node.js** · **Express** · **Cloud Functions** · **GitHub Actions** · **Python**

EDUCATION

Kennesaw State University – Marietta, GA2024

Master of Science, Computer Science

GPA 3.88

CERTIFICATIONS

IEEEExtreme 15.0 Programming Competition – IEEE

All India Rank 62

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Swift, Dart, Bash

Frontend & Mobile: React, Next.js, React Native, Expo, Flutter, Zustand, Redux, Tailwind CSS, SwiftUI

Backend & Realtime: Node.js, NestJS, Express, REST APIs, GraphQL, WebSocket, Twilio Streams, Convex, Webhooks

AI & Agents: Agentic workflows, Tool calling, RAG, Embeddings, Prompt engineering, Vertex AI (Gemini), Mastra, LangGraph, Vercel AI SDK, Claude Agent SDK, pgvector, Pinecone, Hugging Face

Cloud & IaC: GCP (GKE, Cloud Run, Cloud SQL, Pub/Sub, IAM, Secret Manager), Terraform/OpenTofu, Docker, Kubernetes, Vercel, Firebase

Data & DevOps: PostgreSQL, Firestore, Prisma, GitHub Actions, CI/CD, EAS, pnpm monorepos, Git

Auth & Security: OAuth2/OIDC, JWT, RBAC, Better Auth, Firebase Auth, Web Crypto API, HIPAA-compliant design