

# SHAIK AFRID

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## WORK EXPERIENCE

### Srinine Technologies - Associate Software Engineer 2024(Jan) - 2024(Dec) 11months

As an Associate Software Engineer at Srinine Technologies Pvt. Ltd., I worked on frontend development using React.js, TypeScript, Tailwind CSS, ShadCN UI, and React Form. My primary focus was delivering secure, visually stunning, and user-friendly interfaces with smooth animations.

#### 1. CPD API Server Frontend

I developed the frontend UI with 90% ownership, building a ticketing system using WebSockets for live support and real-time notifications. Key features included service and security logs, user actions, provider configuration, API pricing, and KYC workflows with responsive, animated UI for smooth Super Admin approvals and communication.

#### 2. CPD API Client Frontend

I contributed over 60% to this project, collaborating with a 3-member team to build a complex frontend using ShadCN UI and animations. Delivered advanced KYC workflows, a WebSocket-based ticketing system with live chat and notifications, and modules for merchant management, provider priority, and service logs. Implemented multi-role functionalities (Super Admin to Sub-Retailer), ensuring scalability and a user-friendly experience.

### RailTel Corporation of India Ltd. - Software Engineer 2024(Dec) - Currently Working

At RailTel, I lead a 4-member sub-team within a 10-member division, driving the design, development, and deployment of enterprise-grade applications. I have delivered 4 full-stack solutions, including ID management systems, ticketing platforms, and AI prototypes, ensuring scalability, security, and user-focused design. My work spans system architecture, backend APIs (FastAPI, PostgreSQL), frontend (React, Next.js, Tailwind), and Docker-based deployment. I also mentor junior developers, review code, and collaborate with cross-functional teams under Agile to meet critical deadlines.

#### 1. ID Card Management System - RailTel Corporation of India

Developed and deployed a full-stack system (React, Next.js, PostgreSQL) with role-based workflows for ID card generation and approval across multiple headquarters. Automated issuance with QR-coded employee details and printer integration for seamless delivery.

#### 2. RailTel e-Office Support & Ticketing System

Independently built an internal support platform using Vite, React, TypeScript, Tailwind CSS (ShadCN), Next.js APIs, and PostgreSQL. Implemented real-time ticket handling, user management, and role-based access, deploying with Docker for scalable operations. Additionally, developed an Android app in Kotlin enabling employees to raise tickets, track updates, and receive real-time remarks, ensuring seamless support accessibility across devices.

#### 3. HMIS-OPD Helpdesk AI (RAG Prototype)

Created a RAG-based prototype with FastAPI, PostgreSQL, and React to enable multi-source QA across PDFs, CSVs, and YouTube videos. Implemented chunking and pgvector for vector storage, retrieval with reranking, and LLM integration to deliver precise answers with contextual images and video links.

#### 4. EmbedHub - Embedding & Reranking Service

Hosted an in-house embedding and reranking service with batching support, running dual models on a self-managed server, enabling efficient vector operations and scalable retrieval for RAG-based systems.

#### 4.HIS Platform

A full HIS ecosystem built with NestJS, Next.js, FastAPI, FHIR, and ABDM integrations, deployed on a scalable Kubernetes cluster with HA PostgreSQL, Redis, Kafka, ELK, gRPC microservice, and dual CI/CD pipelines for automated deployments and sonarQube quality check, Continuously evolving for production readiness.

## KEY SKILLS

React.js, TypeScript, FastAPI, Spring Boot, PostgreSQL, MongoDB, Docker, Flutter, Kotlin, AI (RAG, Embeddings, LLM Integration), Git, Linux, Problem Solving, Kubernetes, Kafka, ELK, gRPC

# EDUCATION

AANM & VVRSRPolytechnic 2017 - 2021

Electrical and Electronics Engineer - Polytechnic

I have a background in Electrical and Electronics Engineering (EEE) and a passion for technology. This led me to explore ethical hacking and learn various programming languages.

Lakireddy Balireddy College of Engineering 2021 - 2023

Electrical and Electronics Engineer - B Tech

Pursued B.Tech in EEE until 2023, I learned Spring Boot, Next.js, React.js, Python, Django API, FastAPI, Flutter, Dart, Firebase, and MongoDB, and developed websites and apps for clients.

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# ACHIEVEMENTS

Creator - Email Sender Library (Flutter, Python, Node.js)

Developed and published an email sender library on pub.dev, PyPI, and npm.js, achieving 1500+ weekly downloads and enabling seamless mail service integration for developers.

Competitive Programming & DSA

Solved 200+ DSA problems across platforms, including 70+ on LeetCode. Earned 5 Star in Python and Java on HackerRank.

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# PERSONAL PROJECTS

1. Email Sender Library - [NPM JS](#) - [Email service Pub.dev](#)

A lightweight FastAPI-powered email delivery service with SMTP + templating, API-key security, and Kubernetes-ready deployment—published on pub.dev with 1500+ weekly downloads and seamless HTTP integration for any app or microservice.

2. Cortexia Platform

Built a full-scale AI knowledge platform enabling document/video ingestion, auto-embedding, SmartRAG, LightRAG, and GraphRAG retrieval, multi-model inference routing, analytics dashboards, secure API key management, usage tracking, and a React chatbot SDK—powered by FastAPI, PostgreSQL and MongoDB

3. EmbeRankis - embeddings and cross-encoder reranking

A high-performance embedding and reranking engine built for RAG pipelines, featuring dual-model orchestration, batching, vector search, and scalable FastAPI microservices—deployed on a self-managed server with Kubernetes, delivering fast, cost-efficient semantic retrieval for enterprise AI workloads.

3. Muni Ammamma Pickles - Website

A full-stack pickle storefront built with React, TypeScript, Tailwind, ShadCN, TanStack Query, and a Spring Boot + PostgreSQL backend, featuring Razorpay payments, dynamic product/catalog management, secure APIs, and a fast, mobile-optimized shopping experience.

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# SKILLS

AI SDK, Android Studio, C++, CI/CD, Dart, Django, Docker, Embeddings, FastAPI, Flutter, Git, Grafana, gRPC, Graph-RAG, Hugging Face, Java, Kotlin, Kubernetes, LangChain Community, Linux, LLM, MongoDB, NestJS, Next.js, Node.js, OpenAI SDK, PostgreSQL, PyTorch, RAG, React.js, Redis, Shell Scripting, ShadCN UI, Spring Boot, Tailwind CSS, TanStack Library, Transformers, TypeScript, VectorDB, Kubernetes, Kafka, gRPC, ELK, HA, Patroni, ETCD

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# LANGUAGE

Urdu, English, Telugu, Hindi

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# HOBBIES

Problem solving, UI & UX Development, Reading tech, Open source projects, Playing PC games, Watching tech talks, Mobile app tinkering, Exploring AI tools, Chess.