

# Sai S. Venkatram

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## Skills

**Languages:** JavaScript, TypeScript, Go, Dart, Python, SQL

**Technologies & Tools:** React, Next.js, Flutter, Angular, PostgreSQL, MongoDB, Express, Git, AWS, EC2, SQS, RDS, CloudWatch, ECS, RabbitMQ, Docker, Sentry

## Work Experience

**Kredere Wealth Partners Public Ltd, Mumbai**

November 2024 - September 2024

### Senior Software Engineer

- Delivered Porto from concept to production in 8 weeks, enabling relationship managers to analyze sector concentration and risk metrics across 50+ client portfolios daily.
- Optimized data pipeline by migrating from CSV to Parquet format, achieving 70% size reduction and 3x faster processing for several portfolios worth Rs.500Cr+ AUM.
- Shipped B2B features including white-label theming and Session-based multi-tenancy, with 3 wealth management firms in evaluation phase.
- **Technologies:** Next.js, TypeScript, FastAPI, Redis, TanStack Query, Docker, TailwindCSS

**Indian Energy Exchange, Mumbai**

April 2024 - October 2024

### Software Engineer

- Architected and executed migration of mission-critical energy trading system to modern web architecture, achieving zero data loss and 100% uptime during transition across 6-month deployment cycle
- Developed comprehensive transaction auditing system in collaboration with compliance team, ensuring full regulatory compliance while maintaining system performance under high-volume trading loads
- Engineered real-time data visualization components for bid-placement system using Angular and RxJS, reducing trade execution latency by 42% and increasing trader efficiency by 25%
- **Technologies:** Angular, TypeScript, RxJS, SQL Server

## Education

**Manipal University Jaipur**

Aug 2019 - Jun 2023

B.Tech in Electronics and Communication Engineering

CGPA: 8.0/10

Relevant Coursework: Object Oriented Programming, Databases, Data Structures & Algorithms, OS, Computer Networks

## Project Work

- **Forge - Platform-as-a-Service (PaaS):** Developed a self-hosted deployment platform similar to Coolify for simplified application deployment and management. Built intuitive dashboard with Next.js for container orchestration, real-time logs streaming, and deployment pipelines. Implemented authentication system with Better Auth and designed RESTful APIs for Docker container management and monitoring. *Technologies: Next.js, TypeScript, Golang, Docker, PostgreSQL, Better Auth, WebSockets, TailwindCSS.*
- **Redez - In-Memory Database System:** Developed custom in-memory database inspired by Redis and DiceDB for real-time data operations. Built WebSocket-based subscription system for live data streaming to clients. Implemented efficient data structures and memory management achieving sub-millisecond query response times. *Technologies: Golang*
- **TaskFlow - Team Collaboration Platform:** Created an in-house web-based project management application with real-time collaboration features and task assignment workflows. Built notification system with email and in-app alerts for project updates and deadlines. Implemented file sharing capabilities with secure cloud storage integration and user permission management. *Technologies: React, Express, MongoDB, Socket.io, AWS S3, Resend*

## Certifications and Additional Experience

- Awarded 3rd place at the **TCET ACM Hackathon 2024** for innovative mobile application development
- **Networking & Security in iOS Applications** - University of California, Irvine (Coursera)
- **Complete Flutter & Dart for Cross-platform Development** - Udemy certification
- **Advanced UI/UX with Infographics** - Michigan State University (Coursera)