

# Saran Shankar

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## EDUCATION

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### • Shiv Nadar University Chennai

Chennai, India

*B.Tech in Artificial Intelligence and Data Science; CGPA: 8.72*

*Aug 2023 – May 2027*

- **Coursework:** Data Structures and Algorithms, Data Analysis, Machine Learning, Database Management Systems, Operating Systems, Object Oriented Programming, Data Mining, Artificial Intelligence, Statistics
- **Activities:** Built websites for inter college events such as SSNSNUC Instincts' 24 (IPL Auction software)

## EXPERIENCE

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### • Miniture

Chennai, Hybrid

*Software Development Engineer Intern*

*Mar 2025 – Present*

- **Real-time Chat App:** Built an LLM streaming agent using Express.js and LangChain with Server-Sent Events reducing TTFT by 80% while integrating custom tools that streamlined interaction leading to increased retention
- **Kubernetes:** Deployed backend on self-hosted Kubernetes cluster for autoscaling, high availability and automatic deployments
- **Behavior-Driven Notifications:** Built a personalized notification system based on user behaviour and engagement with A/B testing support, boosting Click-Through-Rate
- **CMS Integrations:** Added Shopify review and rating system and CMS-driven blog support to the mobile application

## PROJECTS

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### • Eunoia

*Python, FastAPI, React Native, BeautifulSoup4, Gemini, ChromaDB*

*AI-Powered DIY Learning Platform*

- **AI-Driven Recommendations:** Personalized DIY project recommender that uses fine-tuned Gemini model with RAG to detect objects in the user's environment and suggest relevant, hands-on activities for children
- **End-to-End Stack:** Developed FastAPI backend for project search and scraping and a gamified React Native app with achievements and project tracking.

### • RaftKV

*Go, Raft, CLI, Distributed Systems*

*Distributed Key-Value Store*

- **Distributed Architecture:** Built a fault-tolerant key-value store based on the Raft consensus algorithm for strong consistency across nodes, leader election, log replication, term-based safety, and snapshotting.
- **Testing:** Built tests for failovers, network partitions and recovery; validated linearizable reads/writes under faults.

### • Fraud Detection System

*React, Flask, Kotlin, Scikit-Learn, MongoDB*

*Behavioral Analytics for Financial Transactions*

- **ML-Driven Anomaly Detection:** Developed a fraud detection platform using geolocation shifts, typing patterns, and time anomalies to flag suspicious activity.
- **Application:** Built a Kotlin Android app with phishing/spam alerts and a web dashboard for monitoring.

### • GPA Calculator

*Svelte, PocketBase, Posthog*

*Student GPA Management Platform*

- **GPA Calculator:** Built a performant web app to compute and track SGPA/CGPA with persistent storage
- **Posthog Analytics:** Integrated PostHog for product analytics, enabling data-driven improvements and tracking engagement for 500+ users, with 300+ monthly active users

## AWARDS AND HONORS

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- **Finalist, Kochi Hackathon 2024 by Netstratum Technologies:** Placed top 8 among 300+ teams across India
- **Finalist, NAF Uzhavu Hackathon 2025 by IIT Madras:** Placed top 20 team among 600+ across India
- **Finalist, Pragyan Hackathon 2024 by NIT Trichy:** Finalist among 80 teams from over 400+ teams across India

## PROGRAMMING SKILLS

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**Languages:** Python, Javascript, Go, Java, C/C++

**Web:** React, React Native / Expo, Next.js, Node.js, Express.js, FastAPI, Flask

**Databases:** MongoDB, PostgreSQL, MySQL

**Misc.:** Cloud (AWS, DigitalOcean, GCP, Azure), Docker, Kubernetes, Git, CI/CD