

Sanath Swaroop Mulky

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EDUCATION

Rochester Institute of Technology	<i>Masters in Data Science</i>	May 2025
IIIT, Bangalore	<i>PG Diploma in Software Development</i>	Dec 2021
JNTUH	<i>Bachelors in Information Technology</i>	May 2020

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Golang, Java

Web: Node.js, FastAPI, React

Infra & Cloud : Docker, Kubernetes, Terraform, AWS (S3, EC2, Lambda, Bedrock, RDS, EKS)

DB & Storage: Postgres, MongoDB, Redis, IPFS

APIs & Protocols: REST API, GraphQL, WebSockets

Monitoring: Grafana, Prometheus, Elasticsearch, Logstash

AI & Machine Learning: LLM, RAG, Agents, Reinforcement Learning, NLP, PyTorch, Hugging Face Transformers, OpenCV, OpenAI, LLamaIndex

Messaging & Event Streaming: RabbitMQ, Kafka

WORK EXPERIENCE

Backend Developer @ StaTwig	Hyderabad, India	Apr 2022 - Aug 2023
<ul style="list-style-type: none">Led a 3-member team for an open-source blockchain-based supply chain management system using Node.js, MongoDB, Redis, and Hyperledger Fabric.Moved the MERN web application to a multi-tenant architecture and enabled SSO with Okta, reducing deployment time to 18% of the original.Migrated the backend to a NodeJS-based microservice architecture and set up load balancing to improve scalability.Implemented a key-sharding mechanism for secure key storage of custodian wallets, ensuring strong security compliance.Created a block-archival mechanism by forking Hyperledger Fabric to reduce storage costs by over 80%.Set up fully automated CI/CD pipelines on Jenkins to ensure streamlined production deployments using Docker and Kubernetes.Created unified Grafana dashboards and alerts to enhance observability; integrated Logstash and Elasticsearch for easier log retrieval and monitoring.		
Blockchain Associate @ NPCI	Hyderabad, India	Nov 2020 - Apr 2022
<ul style="list-style-type: none">Contributed to the early development of the modern, tokenized digital version of the Indian Rupee (eINR), serving over 4 million customers across India's largest banks.Collaborated with the team to implement advanced security hardening based on a VAPT report, addressing seven critical issues and over 20 high- and medium-severity issues.Set up inter-service communication using RabbitMQ, reducing the average transaction time by over 20%.Developed a simple RBAC system for the banking application, ensuring fine-grained control for different levels of users.		

PROJECTS

- [Motiv8.hr](#): An AI ATS solution with AI mock interviews. Allows companies to run multiple real-time interviews for different candidates and get instant feedback, enabling faster hiring decisions. | React, Nextjs, MongoDB, vLLM, Web Sockets, Docker
- AutoShell: A CLI agent similar to Claude Code and OpenAI Codex to perform command-line tasks using natural-language instructions | Python, ChatGPT
- RL Meal Planner: Advanced meal planner powered by RL techniques such as Q-learning to consider both taste preferences and calorie requirements. The program learns taste preferences over time and recommends accordingly | Python, CLI-based
- CryptoSense: An AI-powered cryptocurrency analysis tool that analyzes current trends and sentiment in the news to offer buy/sell suggestions | Node.js, Deepseek R1Aw

RECOGNITIONS

- AngelHack Global Demo Day 2018 Winner** | Team Size : 4 | BuildUp | AR & VR Platform for Pre and Post Construction
- HACK.COMS Winner** | Team Size: Solo | CANT.study | Context Aware Note Taker to aid Hard of Hearing Students @ RIT
- Smart India Hackathon 2019 SW Edition Winner** | Team Size: 6 | PayRec | Grievance Redressal platform for MSME
- Mozilla Firefox Hackathon 2016 Winner** | Team Size: 2 | IRTTC | Intelligent Real-time Temperature Control
- EduHacks 2020 Winner** | Team Size: Solo | EduSign | Authenticity and Integrity management of Digital Documents