

Sanath Swaroop Mulky

Santa Clara, CA —(585) 565 2567 — sm6184@g.rit.edu— sanathswaroop.com — linkedin.com/in/sanathswaroop

Software Engineering professional with 3 years of experience in **Machine Learning** and, **Full Stack Development**.
Professional Experience

Head of Product

Jan'25 – Present

Motiv8.Digital

- Owner of the AI-powered ATS Scanning System and Interview Product.
- Deployed a locally-hosted open-source LLM, ensuring compliance with GDPR and DPA regulations.

Full Stack Developer

2022 – 2023

StaTwig

- Designed supply chain architecture for UNICEF's VaccineLedger, serving **20,000+ active users**.
- Deployed NFT marketplace on Polygon Mainnet, handling **15,000+ transactions**.
- Created a model predicting supply shortages, improving predictability by **28%**.
- Developed a crypto exchange platform with buy/sell/swap functionality, processing **10,000+ transactions**.

Blockchain Associate

2020 – 2022

National Payments Corporation of India

- Played a key role in developing a payment platform on **Hyperledger Fabric**, contributing to the onboarding of **20+ banks** and helping capture **10% market share**.
- Contributed significantly to enabling instant online fund transfers on **Blockchain at National Payments Corporation of India**, helping scale the product to **200+ TPS**.
- Early contributor to **India's CBDC Platform eRupee**, developing **batch minting**, **batch transfers**, and core functionalities on the **Wholesale Layer**.
- Gained an in-depth understanding of the **Unified Payments Interface (UPI)** architecture and played a key role in adapting its design principles for **eRupee**.

Technical Skills

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- **Languages:** Python, JavaScript, Golang, Java, TypeScript
 - **Full Stack:** React, Next.js, Node.js, Spring Boot, Django
 - **Cloud and DevOps:** AWS (S3, EC2, Lambda, Bedrock, RDS, EKS), GCP, Docker, Kubernetes, CI/CD
 - **Data and ML:** Supervised/Unsupervised Learning, LLM, RAG, Agents, Reinforcement Learning, NLP, TensorFlow, PyTorch, Hugging Face Transformers, OpenCV, ETL, OpenAI, Llama
 - **Databases & Queue:** MongoDB, PostgreSQL, Redis, RabbitMQ
 - **Tools and More:** Git, Pandas, NumPy, Langchain, Kafka, Terraform
 - **Data Visualization:** Gephi, Tableau, Power BI, Plotly, Matplotlib, Seaborn

Projects

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- **Context Aware Notes Generator:** A tool to help students with learning challenges. (Python, Mongo, React, Llama, Iterative Summarization, RAG, Vector Databases)
 - **CryptoSense:** An AI-Powered Cryptocurrency Analysis Tool that analyses current trends and sentiment in news to offer Buy/Sell Suggestions (NodeJS, Llama).
 - **RL Diet Planner:** Advanced Meal Planner powered-by by RL Techniques such as Q Learning to consider both taste preference and calorie requirements. The program learns your taste preference over time and recommends accordingly(Python, CLI Based)
 - **AutoShell:** An intelligent command-line assistant that seamlessly integrates with a computer's terminal to automate tasks using **ChatGPT** by converting your natural language inputs into complicated multi step shell commands (Example: Install and Setup NGINX for http://cant.study, serve frontend from /path/to and use Certbot for SSL)

Education

MS in Software Engineering (Data Science Major)

Aug 23 - May 2025

Rochester Institute of Technology, NY

PG Diploma in Software Development

2021

IIIT Bangalore

B.Tech in IT (Computer Science)

2016 - 2020

Vignana Bharathi Institute of Technology, Hyderabad

Achievements

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- Winner, **AngelHack 2018**, Global Demo Day, San Francisco.
 - Winner of **Smart India Hackathon — 2019**, **Mozilla IoT Hackathon 2016**.
 - Runner-up, **Bosch IoT Hackathon 2016**.