

# Sanath Swaroop Mulky

Software Engineering Graduate — Expected 2025

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## Summary

Software Engineering professional with 3 years of experience in **Machine Learning**, **Full Stack Development**, and **Blockchain**. Experienced in FinTech, supply chain platforms, and NFT marketplaces. Proactive leader and contributor to tech communities.

## Technical Skills

- **Blockchain:** Solidity, Web3.js, Smart Contracts, NFTs, Ethereum, Hyperledger
- **Languages:** Python, JavaScript, Rust, Golang, C, TypeScript
- **Full Stack:** React, Next.js, Node.js, Spring Boot
- **Cloud and DevOps:** AWS (S3, EC2, Lambda, Bedrock, RDS, CloudFormation), GCP, Docker, Kubernetes, CI/CD
- **Data and ML:** Supervised/Unsupervised Learning, LLM, Sentiment Analysis, TensorFlow, PyTorch
- **Databases:** SQL, NoSQL, PostgreSQL, Kafka
- **Tools and More:** Git, OpenCV, Pandas, NumPy, Unity, Langchain
- **Data Visualization:** Gephi, Tableau, Power BI, Plotly, Matplotlib, Seaborn

## Education

### MS in Software Engineering (Data Science Major)

*Expected 2025*

Rochester Institute of Technology, NY

*Gained expertise in machine learning algorithms, predictive models, and solving complex problems through practical data science techniques.*

### PG Diploma in Software Development

*2021*

IIIT Bangalore

*Acquired skills in agile development and project management, delivering software projects on time and within budget.*

### B.Tech in IT (Computer Science)

*2016 - 2020*

Vignana Bharathi Institute of Technology, Hyderabad

*Founded and led "coding.Studio()", a coding club focused on self-learning and competitive programming.*

## Professional Experience

### Full Stack Developer (Blockchain)

*2022 - 2023*

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- 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 **50%**.
- Developed a crypto exchange platform with buy/sell/swap functionality, processing **10,000+ transactions**.

### Blockchain Associate

*2020 - 2022*

National Payments Corporation of India

- Participated in developing a payment platform on Kubernetes, onboarding **20+ banks** and capturing **10% market share**.
- Worked in a team to enable instant online fund transfers on **Blockchain** at **National Payments Corporation of India**, scaled the product to over **200 tps**.
- Early contributor to the **India's CBDC Platform eRupee**, developed the batch minting, batch transfers, and other core functionality on the Wholesale Layer.
- Worked on the **Unified Payment Interface (UPI)** codebase that successfully handled over 10 billion transactions in a month, adopted its architecture into eRupee

## Achievements

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

## Projects

- **Structured Note Generator:** Developed a tool to assist Hard of Hearing students to generate structured notes using context from the slides and the audio from the class using LLaMA, MERN, Python, and more.
- **Intelligent Real-time Temperature Control:** Increased efficiency by **20%** using Python and OpenCV.
- **RL Diet Planner:** Advanced Meal Planner powered-by by RL Techniques such as Q Learning to consider both taste preference and calorie requirements.(Python, CLI Based)
- **Visitor Management & Parking Allowance System:** Reduced check-in time by **50%** using MERN Stack for coworking spaces. Boosted efficiency by **20%** using image recognition technology (Python, OpenCV, Java).