

Rounakk Raaj Sabat

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EDUCATION

NIST University

B.Tech in Computer Science and Engineering — CGPA: 8.47/10

Berhampur, Odisha

2023 – 2027

EXPERIENCE

Software Engineer Intern

Mar 2026 – Present

Proto Corp Pvt Ltd

Remote

- Engineered a full-stack IoT platform using Next.js, Socket.io, WebRTC, and MQTT to stream real-time drone telemetry and camera feeds with low-latency communication.
- Containerized services with Docker and deployed on AWS using CI/CD pipelines, reducing deployment time by 35%.

Backend & Cloud Engineer Intern

Sep 2025 – Jan 2026

Torqis Horizons

Remote

- Engineered a serverless e-commerce backend using Node.js and AWS Lambda, implementing idempotent APIs and secure payment workflows to improve transaction reliability and fault tolerance.
- Integrated PhonePe payment webhooks with validation and automated retry mechanisms for failure recovery.
- Architected infrastructure using Cognito, S3, CloudFront, AWS SAM, and CloudWatch for scalable deployment and monitoring.

SDE Intern

Aug 2025 – Oct 2025

GoLaddu Food Products Pvt. Ltd.

Remote

- Developed a React Native application integrated with Supabase and PostgreSQL, enabling real-time data synchronization and improving user experience across connected devices.
- Implemented Postgres subscriptions, Edge Functions, and GitHub Actions CI/CD workflows, reducing deployment time by 30%.
- Enhanced application reliability through event-driven architecture and optimized database operations.

PROJECTS

Observability Platform | TypeScript, Docker, Kubernetes, ArgoCD, Prometheus, Grafana | [\[GitHub\]](#)

- Developed a real-time observability dashboard and REST APIs for monitoring distributed microservices.
- Deployed cloud-native infrastructure using Docker, Kubernetes, ArgoCD, Prometheus, and Grafana to improve system observability and operational visibility.

NSE Stocks Arbitrage Bot | TypeScript, Express.js, Rust, LangChain, LangGraph | [\[GitHub\]](#)

- Built an automated arbitrage trading system executing cross-exchange strategies with 15% annualized returns in backtests.
- Processed 1M+ stock market data points daily with real-time analysis latency below 200ms.

Memory Allocator in C | C, Makefile | [\[GitHub\]](#)

- Built a custom memory allocator using segregated free lists with coalescing and block splitting techniques.
- Reduced memory fragmentation and improved allocation efficiency through optimized memory management and alignment strategies.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, C

Backend: Node.js, Express.js, NestJS, REST APIs, WebSockets, Socket.io, MQTT, WebRTC

Databases: PostgreSQL, MongoDB, Redis, Supabase

Cloud: AWS(EC2, Lambda, CloudWatch, CloudFront, S3, Cognito), Docker, Kubernetes, Terraform, GitHub Actions

Systems: Microservices, Message Queues, Caching, Load Balancing

AI: LangChain, LangGraph, Groq API, Gemini API

ACHIEVEMENTS

TechFiesta International Hackathon Finalist

2025

- Ranked among the Top 100 teams out of 600+ global teams and secured Top 5 position in the Grand Finals among 60 finalists.