

# Anomitra Saha

## Principal Engineer

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## SUMMARY

Principal Engineer with 10+ years building high-scale distributed platforms across fintech, supply chain, and e-commerce. Specialize in platform architecture, financial systems, and end-to-end technical leadership, from a micro-lending platform to a global seafood supply-chain platform serving 20k+ users and handling \$200M+ in revenue across geographies. Experienced in driving org-wide engineering standards, system design at scale, and growing high-performing engineering teams.

## WORK EXPERIENCE

### Captain Fresh

*Principal Engineer*

*Oct 2024 - Present*

- Leading an initiative to digitize seafood factory operations across geographies, owning platforms for critical inventory and shipment workflows supporting 20k+ users and \$200M+ in annual revenue.
- Architected and shipped a unified audit trail framework for 10+ microservices and 100k+ events per day, enabling compliance-grade data traceability and governance across the entire platform.
- Spearheaded a platform-wide multi-tenancy solution for ~20 tenants; supporting dynamic row-level, schema-level, and DB-level isolation, configurable per tenant at runtime without service restarts.
- Currently piloting an internal RAG-powered engineering chatbot, indexing ~1000 internal Confluence pages to enable conversational access to institutional knowledge, decisions and playbooks. Built on LangGraph with a custom retrieval and grading pipeline.
- Building and managing a team of 8+ engineers; established org-wide engineering standards and optimized SDLC practices, driving consistent delivery across multiple concurrent platform initiatives.
- Leading cross-team technical direction and business stakeholder alignment to drive the long-term engineering roadmap.

*Software Development Engineer III*

*June 2022 - September 2024*

- Built a configurable factory processing engine serving over 80 factories across 100+ seafood species, enabling fully customized processing workflow modeling per species and per facility.
- Architected a platform-wide Working Capital Management system processing \$10M+ in transactions per month, with organizational-level financial attribution enabling granular PnL visibility through a decentralized ledger and wallet architecture.
- Built a shipment tracking platform managing 100K+ tonnes, integrating on-ground telemetry and shipping partner systems for container traceability across buyers, suppliers and other stakeholders.
- Owned platform reliability across critical services: defined SLAs, drove RCAs, and built failure playbooks to reduce MTTR by ~40%, instrumented across New Relic, Grafana, and Sentry.
- Led and mentored 6+ junior engineers through technical guidance, design reviews, and regular feedback, actively driving their professional growth and contributing to 3 internal promotions.

## Avail Finance

Software Development Engineer III

May 2021 - June 2022

- Led backend execution for a micro-lending platform, managing a team of 6+ engineers and driving architecture for critical customer workflows.
- Owned deep integrations with 8+ external fintech partners including credit bureaus, KYC providers, and NBFCs; building resilient, fault-tolerant backend flows across third-party and in-house systems with graceful degradation under partner outages.
- Delivered core lending platform capabilities such as transaction workflows, billing, and repayments, ensuring reliable and consistent delivery across complex real-world scenarios and partner dependencies.
- The platform supported 300,000+ loans with daily lending of INR 2+ Cr. and the company was acquired by Ola in April 2022.

## Livspace

Software Development Engineer II

February 2019 - April 2021

- Owned backend platform development for the Home Renovation Services vertical, modeling catalog data and pricing workflows across 30+ service categories.
- Designed dynamic SKU generation, custom service creation and pricing computation to support highly configurable service offerings.
- Shipped reliable APIs and backend logic to support end-to-end service discovery and fulfillment.

## Belzabar Software

Computer Scientist

August 2016 - December 2018

- Developed the backend for transfers, VIN lookups, and reporting for the New York State DMV; built a bespoke in-house reporting engine serving dealer employees and DMV workers.
- Worked on schema design, architecture discussions, API development, and background job scheduling tasks.

## EDUCATION

### NIT Durgapur

B.Tech in Information Technology

2012 - 2016

- Studied core computer science concepts and was the vice-president of the GNU/Linux Users' Group, advocating for open source software adoption across the campus.

## KEY SKILLS

- **Backend & Architecture Patterns:** Distributed systems, multitenancy, event-driven architecture, REST API design, domain-driven design (DDD), microservices
- **Languages & Frameworks:** Java, Spring Boot, Python, Django
- **Data & Messaging:** PostgreSQL, MySQL, Kafka, AWS SQS
- **Cloud & Platform:** AWS ecosystem, Docker, Kubernetes, Helm, ArgoCD
- **AI Technologies:** Prompt engineering, LLM integrations, RAG, LangChain, LangGraph
- **Observability:** New Relic, Grafana, Sentry