

# Amartya Mondal

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## Summary

Software Engineer (Backend/Distributed Systems) with **3+ years** building scalable services and data platforms. Hands-on with **Kafka, Elasticsearch, Redis, PostgreSQL, Node/NestJS, Java, GCP/AWS**; shipped systems sending **10M+ emails/day**, **5M+ push/day**, and powering **100K+ devices**. Promoted rapidly into tech leadership; still **IC-first** and code every day. Contributions enabled **\$100M+ product IP acquisition** and enterprise partnerships.

## Technical Skills

**Languages:** TypeScript/JavaScript, Python, Java, SQL, Kotlin, C++

**Backend:** Node.js (NestJS), Spring Boot, REST/gRPC, WebSockets, BullMQ

**Data & Infra:** Kafka, Elasticsearch (incl. vectors), Redis, PostgreSQL, MySQL, MongoDB

**Cloud/DevOps:** GCP, AWS, Docker, Kubernetes, Jenkins/CI, Terraform (basic)

**Other:** TensorFlow.js, BigQuery, Firebase FCM, SendGrid, GitHub Actions

## Experience

### C1X Adtech

Software Engineer & Tech Lead (promoted to Eng. Manager)

Hybrid (India & Japan)

May 2021 – Present

#### • PAXIAI (AI Project Intelligence SaaS)

Tech Lead / IC

- Architected and delivered an **LLM-powered project intelligence platform** integrating data from **Jira, Slack, GitHub, Confluence, Google Docs** into unified **Vector DB, Graph DB, PostgreSQL, Elasticsearch** storage.
- Designed Retrieval-Augmented Generation (**RAG**) pipelines with prompt engineering, embeddings, and semantic search to power **AI-driven summaries, recommendations, and cross-project insights**.
- Implemented streaming ingestion (Kafka) and distributed processing in NestJS with Redis caching, enabling low-latency AI queries across millions of project records.
- Led 10–12 ICs on architecture and code reviews; stayed hands-on with backend, embeddings, and LLM integration.

#### • CDMF for Monotaro (Marketing Platform)

Tech Lead / IC

- Re-architected messaging services to reliably send **10M+ emails/day** (SendGrid) and **5M+ push/day** (FCM) with Kafka, Redis, and BullMQ; implemented frequency capping & consent checks.
- Consolidated 12 legacy services into microservices; improved deliverability and targeting, driving **+18% revenue** and **+12% LTV** within 3 months.
- Platform contributed to **\$100M+ IP acquisition** by client; led technical KT post-acquisition.

#### • DOOH — Digital Out-of-Home Platform

Senior Developer / Tech Lead

- Built ad-serving + telemetry for **100K+ concurrent devices**; real-time coupon/gesture flows using **TensorFlow.js** and event streaming.
- Increased onsite engagement by **50%** via interactive creatives and context-aware triggers; supported pilots with Microsoft, JR East, DNP.

#### • Event Interface Android SDK

Developer (Intern → SDE)

- Wrote custom Android event SDK aligning with Segment.io taxonomy; delivered in 8 months as sole dev.
- Saved **\$1M+/year** in licensing; unlocked a new Japanese client.

### Success Numbers LLC

Software Engineer Intern (Oracle/Deloitte projects)

Remote

May 2021 – May 2022

- **Deloitte Canada (Andrew Peller):** Built core B2B e-commerce (listing, details, cart, order) on Oracle Commerce Cloud; SSEs for pricing and taxation; migration from Magento driving **+15% YoY sales**.
- **Oracle USA (PLCB):** Modernized state-run commerce: Stripe integration; custom APIs for pricing, orders, cart validation; led a 3-person team through data migration and launch.

### Scaler Academy

Part-time Instructor (DSA, System Design)

Remote

Aug 2022 – Present

## Education

Indian Institute of Technology, Patna

B.Tech., Engineering

Patna

July 2018 – May 2022

## Awards & Leadership

- Rapid promotions at C1X: **Intern → Engineering Manager** within 3 years (IC-first track).
- **Google Summer of Code 2019**, FOSSASIA — Student Developer.
- Inter-IIT Tech Meet 2019 — **Bronze** (coding hackathon). IIT Patna DSC — **Overall Lead**. **KVPY Scholar**.