Sanket Dasgupta

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EXPERIENCE

FYND (ACQUIRED BY RELIANCE) | SDE 3 — Bangalore, India | Mar 2021 – Present

- Built and scaled Serviceability and Logistics services for multiple Reliance Jio E-Commerce projects (including Tira and Jiomart) from 0-1M users, **responsible for algorithmic store and shipment assignment, accurate delivery-date computation, and delivery-partner allocation** via partner APIs.
- Led the implementation of **Rule Engines and Geographical Zones with CRUD APIs, functional execution, and UIs giving sellers customization over store, shipment, and delivery-partner selection.**
- Built a QuickCommerce pilot with **polygon-based serviceability that enabled Jiomart's 10-minute deliveries,** later built into **a fully fledged Fulfillment Mode solution that is generic and agnostic,** supporting Quick Commerce, Rush, Same-Day, and Next-Day modes with flexible seller configurations, adopted across Tira Express, Jiomart Quick, and Ajio Rush.
- Architected Ajio's **Exchange Anything flow across Payments, Cart, OMS, and Serviceability in 10 days** , with multiple seller configurations and shipped end-to-end flows in both the Web (React) and Mobile (React Native) apps.
- **Achieved 95% optimization in customer-facing Serviceability APIs** by implementing serialization improvements (orjson), validation migration (Pydantic), async Redis, HTTP session pooling, N+1 query fixes, and DB query batching. Layered in-memory caching (alru_cache) across all components on top of Redis and built a rule invalidation engine using Redis pub/sub.
- Ported the **customer-facing layer of Serviceability from Python to Go, achieving 60% further latency reduction.** Rolled out incrementally using canary deployments, and ported E2E integration tests from the Python service to validate response parity, ensuring 100% compatibility before full cutover.
- Mentored 15 team members across Reliance projects, **led code and solution reviews, drove QA and SRE alignment, and owned release coordination** for the platform powering all Reliance E-Commerce.

PERSISTENT SYSTEMS | Software Engineer — Pune, India | Aug 2018 – Feb 2021

- Migrated an enterprise email product to the cloud via a Chrome Extension/Outlook Addin, and refactored the backend with async worker queues and Redis, achieving a 4x performance improvement.

GOOGLE SUMMER OF CODE | Open Source Developer — April 2016 – August 2016

- Built language-independent documentation extraction and auto-fix tooling for the Python Software Foundation (coala).

SKILLS

Proficient in	Python • Go • Javascript (ES6) • Typescript
Frameworks/Libraries	FastAPI • Sanic • Node.js • Vue.js • React.js
Databases/Datastores	MongoDB • Redis • Kafka • MySQL
Tools	Webpack • Docker • Git
Reliability	Kubernetes • Prometheus • Grafana • GCP

PROJECTS

DJURL • Python • Django • Docker — https://github.com/SanketDG/djurl
A minimal self-hosted URL shortener built with best practices for modern Python tooling around Django.

KHOL • C — https://github.com/SanketDG/khol
A minimalistic shell written in C with support for redirection, history and pipes.

ACHIEVEMENTS

MENTOR FOR GOOGLE SUMMER OF CODE 2017 AND 2020 May 2020
Mentored a GSoC student for the coala and Anita-B organization in respective years.

2ND PLACE AT HACKEREARTH INDIAHACKS OPEN SOURCE HACKATHON March 2016
Contributed to various open source projects to reach the leaderboard on the basis of difficulty of issues triaged.

EDUCATION

ACADEMY OF TECHNOLOGY | B. Tech Computer Science — Kolkata, India | June 2018
GPA: 8.1