

SUDIPTA BANIK

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PROFESSIONAL PROFILE

Backend-focused Software Engineer with 6+ years of experience in Go and Java, including full-stack exposure for internal tooling. Specialized in high-scale Platform Infrastructure (Apache YARN, K8s) at Uber and Product Ecosystems (Lending & Payments) at Grab. Proven expertise in distributed systems, event-driven architectures, and infrastructure optimization at global scale.

TECHNICAL SKILLS

- **Languages:** Go, Java, SQL, C++, Python
- **Infrastructure:** Kubernetes (K8s), Apache YARN, Docker, AWS, GCP
- **Backend & Messaging:** Kafka, Redis, PostgreSQL, MySQL, Aerospike, ElasticSearch
- **Tools/Frameworks:** Spring Boot, Datadog, Jenkins, Git

PROFESSIONAL EXPERIENCE

UBER

Software Engineer-II (L4) | Batch Compute Team

Oct 2024 – Present

- **Automated cluster fault isolation** by implementing a circuit breaker for YARN Router federation(10 yarn clusters) ensuring service availability for high-priority workloads during any cluster degradation.
- **Engineered a workload admission policy** in K8s federation to block low-priority applications during disaster recovery, protecting resources for critical tier-1 services.
- **Optimized scheduling fairness** in multi-tenant YARN clusters by implementing submission timestamp-based ordering.
- **Improved CI/CD** for Apache YARN by developing an automated integration test suite using Cadence workflows.
- **Mitigated host-level OOM errors** by analyzing and redefining memory reservations for host processes in collaboration with the fleet management team.

GRAB

Senior Software Engineer (G4) | Lending Team

Sept 2023 – Oct 2024

- **Contributed to designing and implementing** the shift from batch to real-time event-driven processing for loan offer and credit limit generation, reducing system load.
- **Reduced p95 latency by 40%** for the loan creation API by optimizing database interactions through strategic bulk inserts for high-installment data.
- **Developed a reliable aggregator API** to share data with banking partner, gathering information from 5+ internal APIs and datastores.
- **Enhanced an internal retry framework** built on top of a Kafka connector, enabling message requeuing during application shutdown to prevent data loss.
- **Mentorship:** Facilitated codebase deep-dives and technical onboarding for new hires to accelerate team integration.

GRAB

Software Engineer (G3) | PayLater Team

Oct 2021 – Aug 2023

- **Led the LLD** of an idempotent refund API and state machines for the Indonesia BNPL launch; managed cross-team contract finalization and fallback mechanisms.
- **Enhanced the core Transaction API** by implementing new state transitions for automated loan creation and service fee calculations.
- **Integrated external credit bureau services** by designing a reconfigurable risk-checker module and API client.
- **Drove technical initiatives** including Go version upgrades, go mod adoption, and codebase refactors for clean-code adherence.
- **Awarded "The Grab Way Award"** (Q1 2023) for engineering excellence in BNPL project.

FOURKITES INC.

Software Engineer | Supply Chain Visibility Team

Jun 2019 – Oct 2021

- **Scalability:** Designed a Redis-based caching system handling 50,000+ ocean shipments; architecture was later adopted by the rail and air shipment teams.
- **Performance:** Developed global port autocomplete APIs using composite indexing to achieve sub-second search response times.
- **Tooling:** Conceptualized and oversaw the development of an internal event-simulation tool to increase QA productivity.

EDUCATION

Bachelor of Engineering (Electrical Engineering)
Jadavpur University, Kolkata, IN

Aug 2015 – May 2019

Related Coursework: C++, Data Structures & Algorithms, Computer Networks, Signals & Systems, Engineering Maths

LANGUAGES

English: Full Professional Proficiency **Bengali:** Native