

Subhransu Sekhar Dalai

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Experience

- Senior Software Engineer, Digio – Bangalore, IN** Sep 2022 – Feb 2025
- Engineered a distributed, fault-tolerant accounting microservice to aggregate real-time billing events across services, reducing system downtime to near-zero via redundant, idempotent event-processing pipelines.
 - Architected a scalable AuthN/AuthZ microservice leveraging MFA, JWT, and Attribute Based Access Control to secure high-concurrency flows, managing 8M+ daily requests with 99.9% uptime, while mentoring 2 interns on HA practices.
 - Implemented a real-time prepaid revenue ledger enabling accurate unbilled and deferred revenue reporting, with finance-grade dashboards for target tracking and revenue visibility adopted by sales and leadership.
 - Overhauled the KYC Audit Approval Engine into a modular multi-tier system with dynamic assignment logic and skip functionality allowing simultaneous multi-auditor verification, reducing auditor Turnaround Time (TAT) by 45%.
 - Delivered core components of an in-house eSign Service Provider(ESP), handling asynchronous signing flows, eKYC based user verification, and HSM-backed key operations, with secure, audit-compliant XML APIs aligned to CCA.
 - Designed and evolved a Zoho-based invoicing workflow with automated contact creation, tiered pricing, subscriptions, and invoice life-cycle management, reducing manual finance effort and improving operational efficiency by 4x.
 - Reduced webhook processing latency by 40% by introducing user-configurable multi-queue isolation to eliminate cross-endpoint bottlenecks, and delivered a redesigned management UI that enabled granular webhook configuration, resulting in a 70% reduction in support tickets.
- Software Engineer 2, Dell EMC – Bangalore, IN** Jun 2020 – Jan 2022
- Optimized delete workflow of the PowerStore data mobility by improving asynchronous remote connection teardown and retry handling, reducing remote connection cleanup time by 40%.
 - Designed idempotent state machines with rollback handling for remote system operations, ensuring consistent cleanup and 100% system integrity during partial failures and retries.
 - Redesigned monitoring for data mobility workflows to proactively surface CP–DP state inconsistencies, reducing issue detection and reporting time by 30%.
 - Spearheaded NetApp (generic array) support for PowerStore, enabling the first non-Dell storage integrations through agent-less import and cleanup workflows, expanding platform compatibility.
- Research Intern, Indian Institute of Information Technology – Allahabad, IN** May 2018 – Jul 2018
- Applied multiple network measures and analysed time-series changes in functional connection of brain for positive emotion using complex network analysis; identified critical patterns and key insights.

Skills

Languages: Java, Python, JavaScript

Backend & APIs: Spring Boot, Microservices, REST APIs, API Design

Systems & Architecture: Distributed Systems, Event-Driven Architecture, Fault-Tolerant Systems

Security: JWT, MFA, Digital Signatures, HSM-based Key Management

Data, Messaging & Infra: MySQL, Redis, AWS, SQS, Git

Education

- National Institute of Technology, Rourkela** Jul 2015 - May 2020
Dual Degree of Bachelors in Computer Science & Masters in Information Security 7.78

Leadership & Accomplishments

- Secretary, Training & Placement Cell, NIT Rourkela** May 2019 – May 2020
- Led a team of 24 placement coordinators, achieving 100% placement across 13 branches
 - Achieved milestone of 1200+ offers even during the critical COVID hit period
 - Drove critical decisions on company scheduling, placement rules, and policy governance