

Amarnath Sahoo

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SUMMARY

Senior Backend Engineer with 6+ years of experience building scalable, customer-facing platforms in fintech domains. Proven ownership of end-to-end system design, API-first architectures, real-time systems, and automation platforms, with deep expertise in Java, distributed systems, and cloud-native development.

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science

Jan 2023 – Jan 2025

Bangalore, India

International Institute of Information Technology (IIIT)

Bachelor of Technology in Information Technology

Aug 2015 – Apr 2019

Bhubaneswar, India

TECHNICAL SKILLS

Languages – Java 17, Python, Node.js

Frameworks – Spring(Boot, MVC, Cloud, Data, Security, Web Services), Bootstrap (5.0)

Database – PostgreSQL, MySQL, MongoDB, Cassandra, AWS Dynamo DB

Web Technologies – Angular 16, HTML, CSS

Messaging Services – RabbitMQ, Kafka, AWS SQS

Caching Services – Redis

Testing Framework – Junit, Mockito, Karate, Selenium, Cucumber

Deployment Environment – AWS, PCF, PKS(Kubernetes & Docker)

Version Control System – GIT

AWS Services – Bedrock, Lambda, API Gateway, S3, SES, SNS, IAM Role, Secrets Manager, EKS, LightSail, Glacier

Tools – Claude Code, ChatGPT, Cursor, Confluence, Stoplight, Postman, Swagger, Allure

PROFESSIONAL EXPERIENCE

Papaya Global | Software Development Engineer 2 | Bangalore

Jun 2024 – Present

- **Independently architected** and delivered a highly scalable, **AI-powered, customer-facing support automation chatbot platform used across Papaya**, owning the solution end-to-end from HLD, LLD, rapid prototyping using **Cursor** to production rollout within **two sprints**; built on a production-grade **WebSocket architecture** with custom security, ultra-low latency guarantees, and deep observability (Grafana), achieving **microsecond-level** real-time communication, automating **300+ Salesforce ticket creations**, and designed to scale beyond a **million concurrent users**.
- **Single-handedly built an enterprise-scale API automation platform** with **built-in guardrails enforcing best practices**, supporting API, contract, integration, and performance testing under the **Karate framework**; integrated **daily schedulers, SquadCast and Slack alerts**, and **Allure report publishing**, enabling proactive failure detection and rich test visibility; **adopted by 6 teams** covering 1500+ testcases.
- **Architected and implemented an end-to-end ISO20022 payment ingestion pipeline**, building a **custom ISO20022 XML parser using Prowide** along with a **country-aware custom account number parsing engine supporting 20+ countries**, enabling third-party payments using IBAN/account number; deeply mastered European banking specifications and integrated with internal payment systems to **reduce authority payment creation from days to minutes** while **eliminating manual errors through automation**.
- **Designed and delivered secure, auditable back-office workflows for financial operations**, including wallet fund transfers, bulk payment actions, and data synchronization, using **rule-based access control and end-to-end audit logging** to ensure strong compliance, traceability, and operational transparency.
- **Enhanced core Payments APIs to enable customers to create, manage, and track worker payments**, delivering a reliable, API-first payment experience at scale.

Dell Technologies | Senior Software Engineer | Bangalore

Jul 2019 – Jun 2024

- Designed and built different **Dell Digital Cloud services** supporting Compute, Database, Caching, and Messaging.
- Developed and maintained **30+ microservices** and **6 production schedulers**, ensuring scalability, reliability, and high availability.
- Implemented **blue-green deployments**, CI/CD best practices, and improved system stability through **JUnit and Selenium** automation.
- **Independently designed and implemented** an end-to-end automation system for **Dell Unity Storage** (Day-1 & Day-2 operations).
- Reduced infrastructure provisioning time from **7 days to 10 minutes** through workflow automation and system integration.
- Built multiple **enterprise portals** (DR Classification, PCF PaaS, MDC) as a full-stack developer, delivering workflow automation, approvals, batch jobs, and notifications.

EXTRACURRICULAR ACHIEVEMENTS

- Served as **ITDP lead and ITMP** for FY23 and FY24 consecutively. As part of that we ideated, organized & delivered various technical & professional events for the new hires at Dell Technologies.
- Majorly contributed to Tech CSR as a full stack developer for **DBraille – An application to convert PDFs to BRFs**.