

Suriya Tasmim Disha

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SUMMARY

Senior Software Engineer with 5+ years of experience building backend systems for enterprise SaaS. Designs distributed data infrastructure, event-driven integrations, and integration platforms serving global clients in energy, banking, healthcare, and telecom. Drives architecture decisions end-to-end, from technical discovery with enterprise customers through production delivery and performance optimization.

PROFESSIONAL EXPERIENCE

Optimizely

November 2022 – Present

Senior Software Engineer

Dhaka, Bangladesh

- Owned the technical relationship for a global energy enterprise client's custom reporting platform, delivering ongoing feature work, bug fixes, and a full re-architecture of the legacy Python reporting pipeline from a monolithic batch job into parallelized, independent report generators. **Cut full pipeline runtime from 12–15 hours to 2–3 hours**, brought a critical time-tracking report from **7+ hours to 13 minutes**, and **drove a 4x expansion of the maintenance contract (300 → 1,200 hours)**.
- Built an internal integration platform (Node.js, TypeScript, Express) replacing a third-party automation vendor, addressing reliability gaps and customization limits. **Cut annual recurring costs by \$82k** and gave the team full control over integration logic and per-tenant configuration.
- Engineered a **scheduled batch ETL pipeline** in Python that extracts from **MongoDB, MySQL, and PostgreSQL** into Redshift via full-table reloads, with primary-key deduplication and a Python transformation layer that flattens nested JSON into queryable columns. **Live in production on a dedicated Redshift instance**, decoupling analytical workloads from production database traffic and giving the client direct BI access.
- Architected and shipped **6 production integrations** (Bynder, Seismic, Salesforce, Jira, SharePoint, Showpad) for enterprise clients including **Standard Chartered, Ciena, and GE Healthcare**, customized per client. **Pattern now powers 18+ integrations across the platform** as the standard delivery model.
- Developed a **Redis-backed async queue (BullMQ)** for asset uploads across integration platforms, with retry-with-exponential-backoff for transient network and upstream failures, idempotent handling of duplicate-asset responses, and Sentry-tracked failure reporting. **Cut manual recovery for transient failures** and made uploads resilient to intermittent third-party errors.
- Designed a decoupled pipeline for large asset uploads: files over 50 MB are routed via pub/sub to a Jenkins-triggered Python worker that streams the source download into a multipart upload with **threaded chunk processing - bounded memory, no local storage**. Running in production for enterprise clients.

Brain Station 23 Ltd

January 2021 – October 2022

Software Engineer

Dhaka, Bangladesh

- Led a cross-functional team of 6 (frontend, backend, QA) to design and deliver a serverless IoT platform for Abralife - a water infrastructure monitoring system for leak detection, flow control, and billing. Architected core APIs and event-driven device management across **AWS Lambda, API Gateway, DynamoDB, SQS, AppSync, EventBridge, Cognito, and SES**, managing technical direction and stakeholder communication throughout delivery.
- Built the client-side of ShareBike, a white-label e-bike sharing platform deployed for clients including **Moby Bike and The Big Issue E-Bike**: real-time bike telemetry and live fleet positioning, Stripe payment flows, and ride lifecycle features across a **React admin portal and React Native mobile app**.
- Integrated client-side APIs for real-time telecom usage tracking into MyBL Lite (Banglalink's mobile app), enabling self-service features that **contributed to a 23% reduction in customer support tickets**.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript

Frameworks: Node.js, Express.js, pytest

Databases: MongoDB, MySQL, PostgreSQL, Redshift, Redis

Infrastructure: AWS, Docker, Jenkins

EDUCATION

Bangladesh University of Professionals

January 2017 – March 2021

BSc in Information & Communication Engineering

Dhaka, Bangladesh

- CGPA: **3.62 / 4.0**