

Ankan Roychowdhury

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SKILLS

- **Backend Development** : Java, JavaScript, SpringBoot, NodeJS, Express, WebSocket, WebRTC
- **Database & ORMs** : MySQL, MongoDB, Redis, Sequelize, mongoose, Hibernate
- **Miscellaneous** : AWS, RabbitMQ, AWS S3, JDBC

EXPERIENCE

CODECLOUDS | Software Engineer

March 2023 - Present | Kolkata, India

Decline Order Reprocess | JavaScript, Node.js, Express, MongoDB, RabbitMQ, Jest

- Developed a decline order reprocess microservice which reprocess decline orders based on different checkpoints & conditions.
- Migrated and optimized essential Laravel APIs into Node.js saving more than **97%** costs as well as refactoring of the legacy code architecture.
- Engineered and executed cron job-based scripts to optimize delay reprocessing, improving transaction efficiency by **25%** and reducing processing time by 40 minutes per transaction.
- Worked on several APIs and features with Caching, Unit Tests and Integration Tests to seamlessly scale and be consumed by **10K+** Monthly Active Users.
- Integrated another patch which ensures the reprocess of declined re-bill orders or subscription orders.
- Made a solid infrastructure for log mechanism leading to a **17%** reduction in system downtime.

Sales Tax Calculation | JavaScript, Node.js, Express, MySQL, Sequelize, Jest

- Microservice to provide US-based sales tax rates & calculations based on order value, items & shipments.
- Proposed product-level tax rules for a subset of product categories which increased accuracy of product based tax calculation by **32%**
- Service has been established on more than **5000+** applications which automates the tax calculation on purchase.

CODECLOUDS | Software Engineer Intern

Sept 2022 - March 2023 | Remote

Invoice Publisher | React, NodeJS, Express, RabbitMQ, Turborepo, Puppeteer

- Web application where clients can generate invoices for customers by providing required inputs.
- Implemented routing logic to route between CRMs (**Salesforce, Konnektive** etc.) for getting order data.
- Introduced **puppeteer** for Server-Side Rendering & PDF generation.
- Utilized **Mailgun API** to send invoice emails to customers.
- **RabbitMQ** Message Broker is used to enqueue email notifications on server downtime.
- Both backend & frontend are maintained in a single entity using Monorepo (**Turborepo**)

PROJECTS

Chat App | NodeJS, Express, Socket.io, Redis | [GitHub](#)

- Prepared a chat application with **WebSocket** for highly reliable two-way communication using **Socket.io**
- Implemented **Redis** pub/sub model to scale to multiple servers & send events to all connected servers.

Shopeasy | React, NodeJS, Express, MongoDB, MySQL, Razorpay API | [Live](#) | [GitHub](#)

- Created an eCommerce web app with **React** and **Node.js**, including a secure **Auth Microservice** for user authentication and authorization.
- Implemented efficient order and product management microservice & initiated **Razorpay** for seamless payment processing, and ensuring reliable email notifications using **RabbitMQ** during server downtime.

MENTORSHIP & ACHIEVEMENTS

- Selected as **Google DSC** Brainware University Tech Lead
- Facilitated Android compose camp as GDSC Tech Lead where **1K+** students have participated.
- Mentored 5000+ students as GDSC Tech Lead or as a tech enthusiast.

EDUCATION

Brainware University
B.Tech CSE
CGPA - **9.44**

August 2020 - Present