

ARITRA SEN

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Experience

FREECHARGE DBAT - AXIS BANK Sep 2024 – Present
SDE - BackEnd Remote

- Developed and optimized the backend for the **Quick Overdraft Product** serving **ETB** and **NTB** customers, enabling **automated loan disbursement** based on **credit history** and **risk assessment**.
- Implemented **Redis-based API response mocking** to ensure **seamless inter-service communication** and maintain **system resilience** during microservice downtime or dependency unavailability.
- Integrated **Omnidocs**, an internal **AXIS Bank Object Storage Service**, into the product for **secure storage and retrieval** of sensitive documents such as **CIBIL reports**, **bank statements**.
- Developed a **Backoffice Module** to facilitate **manual verification (eyeballing)** of loan applications flagged for **suspicious activity**, **fraud detection**, and **KYC anomalies**.

ContenTerra Software Feb 2023 – Aug 2024
Associate Software Engineer Hyderabad, Telangana, India

- Designed the backend architecture of an enterprise-level **Invoice Management System** for Reliance with **4-tier verification workflows** using **NestJS**, **TypeORM**, and **MS SQL Server** to ensure **high scalability** and a **modular code structure**.
- Implemented secure **RBAC**, **transactional consistency**, and **database locking**, enhancing **data integrity** and **concurrency by 18%**, and boosting **query performance by 25%** through **indexing** and **query optimization**.
- Developed a performance-optimized core backend modules of **Yashoda Hospital's HIS Module** using **Node.js**, **Express.js**, **Sequelize**, and **OracleDB**, streamlining hospital operations and strengthening **data integrity** across multiple branches.
- Addressed **automated data synchronization** and **post-transaction processes** by incorporating **cron jobs**, reducing **manual interventions by 40%** and maintaining **real-time system consistency**.
- Developed and deployed a **multi-tenant SaaS platform** for **insurance policy distribution** to **brokers and marketing agencies** using **NestJS**, **MongoDB**, **AWS S3**, and **AWS Lambda**, achieving **99.9% uptime**, **modular microservice scalability**, and **secure cloud data storage**.

IntelektAI November 2021 – April 2022
Software Engineering Intern **Recommendation letter** Bengaluru, Karnataka, India

- Collaborated with **Node.js** Development Team, delivering valuable contributions to two **enterprise** applications.
- Developed a **Full-Stack** internal **pay-slip** tool with **React-Typescript**, reducing **manual hovering time by 17 minutes** and increasing **invoice management** efficiency.

Projects

E-School-Hub **NestJs**, **React.js**, **Ant Design**, **React-bootstrap**, **MongoDB** [🔗](#) [🔗](#) [🔗](#)

- Designed and developed a **School Management Software** with key features such as **CSV data export** and **robust security measures**, ensuring **seamless functionality** and **data privacy** for school administrators

MediEasy **React.js**, **Ant Design**, **React-bootstrap**, **LocationIQ**, **Node.js**, **Express.js**, **MongoDB** [🔗](#) [🔗](#) [🔗](#) [YouTube](#)

- This is an **optimized responsive web application** that uses the **location of the user** and helps users to find **nearby hospitals** and **provides information on hospital bed availability**, **ICU availability**, **blood bank inventory**, etc. which is not available on **google maps**.

Education

Government College of Engineering and Leather Technology August 2019 - July 2023
Bachelor of Technology in Computer Science Engineering. CGPA: 9.44/10.00 Kolkata, West Bengal, India

Technical Skills

Languages: JavaScript, TypeScript, Java

Technologies/Frameworks: Node.js, Nest.js, Express.js, REST APIs, React, JWT, HTML, CSS, EJS

Libraries: TypeORM, Mongoose, Jsonwebtoken, Sequelize

Databases: MongoDB, Redis, PostgreSQL, MySQL, OracleDB, MSSQL

Distributed Systems: Microservices, Docker, NGINX, Apache Kafka, RabbitMQ, AWS (S3, EC2, SQS)

Tools/Infra: Git, CI/CD(GitHub Actions, Jenkins), BitBucket, Kibana, GitHub, GitLab, Postman, Swagger

Achievements

* Finished in Top 4th position in **MLH Hack4Bengal Hackathon** among 1500 applicants. [🔗](#)

Profile Links