

MADHUMITA MOI

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🐙 [Github/Madhumitamoi](https://github.com/Madhumitamoi)

Education

National Institute of Technology, Agartala

Bachelor of Technology, Electronics and Communication Engineering

2020 - 2024

CGPA- 7.8/10

DAV Model School, Durgapur

Senior Secondary, (XII), CBSE

2018 - 2020

Grade- 91.2 %

Work Experience

Software Development Engineering

May 2025 - Present

Dream11

Mumbai, India

- Developed Java-based backend APIs for an open-source experimentation platform, enabling A/B testing, feature rollout, and data-driven product decisions.
- Executed load, stress, and performance testing to benchmark throughput/latency, identify bottlenecks, and improve overall system scalability.
- Built and optimized secure account management APIs (signup, login, KYC, wallet, profile) for a Fantasy Sports product with 2M+ downloads.
- Owned the Winners Declaration service end-to-end, designing APIs and cron-based workflows to ensure accurate and timely contest settlement at scale.
- Improved service reliability and observability by implementing CloudWatch alerts and Grafana dashboards, reducing incident detection and resolution time.
- Authored service maturity documentation and runbooks, strengthening on-call readiness and standardizing incident response processes.
- Mentored junior engineers through code reviews and design discussions, improving code quality and accelerating team productivity.

Software Development Engineer - 1

June 2024 - April 2025

ZOMATO

Gurugram, India

- **Built Table Reservation System for Zomato/District:** Designed and developed **gRPC APIs** for the new dining service handling Zomato's dining traffic, following best API design practices. Optimized backend performance, improving booking efficiency for **162.5K+ peak reservations** while ensuring seamless tracking of reservations.
- **Worked on the table reservation booking system for District Dining (7.5M+ downloads) in Golang,** handling **162.5K+ peak reservations** and improving booking efficiency.
- **Developed Real-time Notification System:** Built a scalable notification system in Golang for Zomato and District, processing **70K+ daily updates** to enhance user-restaurant communication, with integrated tracking for user engagement.
- **Implemented Set Menu Feature:** Designed and developed the Set Menu feature, enabling targeted dining discounts. Drove **10K+ daily impressions** and increased restaurant engagement for Zomato/District **Dining Carnival**, with tracking mechanisms to measure adoption and performance.
- **Optimized Backend Performance & Scalability:** Built **scalable APIs in Golang**, migrating internal functionalities to external **gRPC services**. Worked with **AWS DynamoDB** to enhance data storage efficiency and performance, improving system reliability and scalability.
- **Developed Self-Serve Dashboards & Feature tools:** Defined **RPCs** to support business-critical use cases like Feature Store. Built internal dashboards for **Benefits, Table Reservations & Experiences** using **React.js**, enabling **200+ analysts** to streamline workflows and enrich data independently while monitoring key business metrics.

Software Development Engineering Intern

December 2023 - May 2024

VIRGIO

Bengaluru, India

- **Developed the entire front-end flow for a custom returns and exchange feature** using **React(Remix) and Tailwind CSS**, replacing a third-party app. This enhanced UI/UX and logistics flexibility, resulting in a **30% increase** in customer satisfaction.
- **Migrated and optimized the website to Hydrogen (React Remix framework) from Shopify**, improving performance scores from 60% to 95%, and enhancing key features contributing to a **45% faster page load time**.
- Enhanced Size Chart interaction, **developed the high-design Circularity page and size chart**, reducing size-related queries by **15% and boosting user satisfaction**. Resolved critical website bugs, improving overall page load time by **35%**.

Software Development Engineering Intern

May 2023 - July 2023

XIMKART

Bengaluru, India

- **Developed a PDF-to-image conversion feature** in **Java**, enhancing file preview functionality.
- Implemented **WhatsApp integration for enhanced client notifications**, improving communication and client experience.
- Implemented a search engine using **Elasticsearch** for product search, aiming to enhance user experience and satisfaction.

Achievements

- **First Runner up** in **Google Girl Hackathon 2023**, Among the top **0.002%**. : [Certificate Link](#)
- Secured **Global Rank 6** in Codechef Starters - 93 (div 3). Achieved **top 0.16%** rank among 4000 participants
- **Codeforces : Pupil (1375)** rated. **Profile:** [madhumoi0266](#)
- **CodeChef : 3 star (1647)** rated and **Profile:** [madhumitamo](#)
- **LeetCode : 600+** problems solved. **Profile:** [madhumitamo](#)
- **Outreachy Program** : Ranked in the **top 6%** out of 5,000+ applicants for open-source contribution.
- **Jumpstart'22 Publicis Sapient** : Ranked finalists in a Coding Hackathon.
- **HACKBIZ'20** : Led my team to **WIN** in a Case study challenge with 75+ competing teams

Technical Skills

Languages: Golang, C++, JAVA, JavaScript, ReactJS, AWS Dynamodb, Redis, NodeJS

Developer Tools: Git, Github, VS Code, Postman, Elasticsearch, JIRA, Bitbucket, API

Fundamentals: System Design Patterns, Object-Oriented, Operating system, Database Management.

Positions of Responsibility

- **Developers and Coder Club NIT-A:** Created video editorials for Coding contests, mentored peers and juniors.
- **Increased girls' engagement in coding contests by 60%** through training and mentorship
- **Entrepreneurship Cell:** Head of External Affairs, Conducted various sessions with Entrepreneurs, and professionals.