

Shubhobroto Mukherjee

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Experience

Daimler Truck Innovation Center India

August 2023 – present

Software Engineer

Bengaluru, Karnataka

- Optimized geospatial aggregation pipelines in PostgreSQL/PostGIS, reducing query latency by 40%+ through spatial indexing and clustering.
- Developed distributed event-management APIs in Spring Boot with concurrency-safe updates and real-time data synchronization.
- Built a resilient ingestion layer using Azure Event Hub and API Management with OAuth 2.0/JWT, schema validation, and fault-tolerant retries.
- Designed a high-load simulation framework (100K+ concurrent clients) to benchmark system performance and auto-scaling behavior in Kubernetes.

Daimler Truck Innovation Center India

February 2023 – July 2023

Software Engineer Intern

Bengaluru, Karnataka

- Engineered an in-house Java utility library standardizing core backend functions across Spring Boot microservices, eliminating third-party dependency inconsistencies.
- Built reusable modules (StringUtil, CertificateUtil, CollectionUtil, ConversionUtil) including RSA/EC cryptography, data conversion, and collection algorithms used across multiple teams.
- Delivered fully-tested Maven packages with comprehensive JUnit coverage, strengthening reliability, security alignment, and drop-in adoption across the platform.

Education

Christ Deemed to be University

May 2023

Bachelor of Technology in Computer Science (CGPA: 8.72 / 10.00)

Bengaluru, Karnataka

- **Relevant Coursework:** Object Oriented programming (Java), DBMS, Computer Networks, Operating Systems

Projects

File Sharing Application | Node.js, Express, Cloudinary *live*

- Built a scalable file-sharing service with instant upload and secure link-based downloads using Node.js and Express REST APIs.
- Integrated Cloudinary for reliable file storage and CDN-backed delivery; deployed on Railway with validation and error-handled flows.

Real-Time Chat Application | Node.js, Socket.IO *live*

- Developed a real-time chat system using event-driven Socket.IO with multi-room support and low-latency message broadcasting.
- Optimized WebSocket event handlers and deployed a stable Node.js backend enabling concurrent real-time communication.

Technical Skills

Problem Solving: Data Structures & Algorithms (C++, Java)

Backend: Java (Spring Boot), REST API Development, Maven, JUnit, Node.js (Express)

Cloud & DevOps: Azure Event Hub, Azure API Management, Azure Kubernetes Service (AKS), Docker, Kubernetes, CI/CD

Databases: PostgreSQL, PostGIS, SQL Tuning, Redis

Frontend: React.js, JavaScript (ES6+), TailwindCSS, MapLibre GL, OpenStreetMap Styling

Tools: Git, GitHub Actions, Postman, Linux, Jira, Confluence

Achievements

- Received the **ACE Trailblazer Award** for significant engineering contributions to a major production software-only feature at Daimler Truck India (awarded by MD & CEO).
- Awarded multiple **Consistent Effort & Reliability** recognitions for sustained delivery, technical ownership, and handling complex platform work.
- Solved **1200+ coding problems** across platforms — *Codeforces (585+)*, *LeetCode (503+)*, *CodeChef (100+)*, *TakeUForward (133+)*, and **6-Star** in Problem Solving *HackerRank*.