

# Shubhobroto Mukherjee

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## Experience

<b>Daimler Truck Innovation Center India</b>	August 2023 – present
<i>Software Engineer</i>	Bengaluru, Karnataka
<ul style="list-style-type: none"><li>Optimized geospatial aggregation pipelines in PostgreSQL/PostGIS, reducing query latency by 40%+ through spatial indexing and clustering.</li><li>Developed distributed event-management APIs in Spring Boot with concurrency-safe updates and real-time data synchronization.</li><li>Built a resilient ingestion layer using Azure Event Hub and API Management with OAuth 2.0/JWT, schema validation, and fault-tolerant retries.</li><li>Designed a high-load simulation framework (100K+ concurrent clients) to benchmark system performance and auto-scaling behavior in Kubernetes.</li></ul>	
<b>Daimler Truck Innovation Center India</b>	February 2023 – July 2023
<i>Software Engineer Intern</i>	Bengaluru, Karnataka
<ul style="list-style-type: none"><li>Engineered an in-house Java utility library standardizing core backend functions across Spring Boot microservices, eliminating third-party dependency inconsistencies.</li><li>Built reusable modules (StringUtil, CertificateUtil, CollectionUtil, ConversionUtil) including RSA/EC cryptography, data conversion, and collection algorithms used across multiple teams.</li><li>Delivered fully-tested Maven packages with comprehensive JUnit coverage, strengthening reliability, security alignment, and drop-in adoption across the platform.</li></ul>	

## Education

<b>Christ Deemed to be University</b>	May 2023
<i>Bachelor of Technology in Computer Science (CGPA: 8.72 / 10.00)</i>	Bengaluru, Karnataka
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Object Oriented programming (Java), DBMS, Computer Networks, Operating Systems</li></ul>	

## Projects

<b>File Sharing Application</b>   <i>Node.js, Express, Cloudinary live</i>	
<ul style="list-style-type: none"><li>Built a scalable file-sharing service with instant upload and secure link-based downloads using Node.js and Express REST APIs.</li><li>Integrated Cloudinary for reliable file storage and CDN-backed delivery; deployed on Railway with validation and error-handled flows.</li></ul>	
<b>Real-Time Chat Application</b>   <i>Node.js, Socket.IO live</i>	
<ul style="list-style-type: none"><li>Developed a real-time chat system using event-driven Socket.IO with multi-room support and low-latency message broadcasting.</li><li>Optimized WebSocket event handlers and deployed a stable Node.js backend enabling concurrent real-time communication.</li></ul>	

## Technical Skills

<b>Problem Solving:</b> Data Structures & Algorithms (C++, Java)
<b>Backend:</b> Java (Spring Boot), REST API Development, Maven, JUnit, Node.js (Express)
<b>Cloud &amp; DevOps:</b> Azure Event Hub, Azure API Management, Azure Kubernetes Service (AKS), Docker, Kubernetes, CI/CD
<b>Databases:</b> PostgreSQL, PostGIS, SQL Tuning, Redis
<b>Frontend:</b> React.js, JavaScript (ES6+), TailwindCSS, MapLibre GL, OpenStreetMap Styling
<b>Tools:</b> 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*.