

SAGAR KUMAR

M.TECH (CSE), IIT GUWAHATI

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Github [↗](#) LinkedIn [↗](#) LeetCode [↗](#)

PROFESSIONAL EXPERIENCE

- **HCL Software** Bengaluru, India
Senior Software Engineer Jul'21 - Present
Product Description :
 - IBM Rational Business Developer is a polyglot application based on Eclipse RCP. The user writes code in a language called EGL and can be generated to target platforms like Java, Javascript, and COBOL. The user can also create SOA like RPC, REST, and SOAP applications with Javascript-based clients and deploy them into any server.*Role and Responsibilities:*
 - Implemented features that support the generation of code to target platforms in headless mode, allowing code generation without the need for the IDE's user interface.
 - Incorporated slf4j into the product, enabling compatibility with multiple logging framework implementations.
 - Designed, developed and maintained applications using Java and related technologies.
 - Migrated the legacy build setup to the new CI-CD pipeline using Jenkins, Maven, and Github.
 - Collaborated with cross-functional teams to understand and define requirements.
 - Participated in code reviews, testing, and debugging of application features.
 - Performed OSS scans, integrated JDK into the product, and supported license building.

TECHNICAL SKILLS

- **Languages:** Java, Python, MySQL **Frameworks:** Spring, SpringBoot, Hibernate
- **Cloud Technologies:** Docker, Kubernetes, Microservices, AWS **Tools :** Maven, Jenkins, Git, Tomcat
- **Operating System:** Linux, Windows **Networking Basics:** TCP, UDP, SSL, HTTP

EDUCATION

- **Indian Institute of Technology, Guwahati** Jul'19 - Jun'21
Master of Technology in CSE/Data Science; GPA: (8.32/10.0)
- **Heritage Institute of Technology, Kolkata** Aug'14 - Jul'18
Bachelor of Technology in Electronics and Communication; GPA: (7.85/10.0)

PROJECTS

- **E-Commerce Backend Application from Scratch Using Java and Spring Boot** [↗](#)
 - Developed essential e-commerce backend REST APIs for streamlined order, product, user, cart, and category management, ensuring module integration and smooth system operation.
 - Enhanced backend security and documentation via JWT authentication, Swagger, and Docker containers.
 - Established a robust CI/CD pipeline with Jenkins for efficient deployment on AWS-EC2, adhering to SOLID principles for code quality and maintainability.
 - **Technology :** Java, SpringBoot, MySql, Docker, AWS
- **In-memory Cache System with LRU (Least Recently Used) Eviction Policy** [↗](#)
 - Implemented an in-memory cache with a user-defined size and LRU (Least Recently Used) eviction policy in Java, implementing key operations such as fetch, insert, delete, and clear to efficiently manage and retrieve data.
- **Real-Time Location Tracking Service** [↗](#)
 - Designed and implemented a Spring Boot and Kafka-based application for live location tracking, enabling efficient event-driven communication and data processing.
 - **Technology :** SpringBoot, Apache-Kafka

ACHIEVEMENTS AND FELLOWSHIPS

- Scored 98.96 percentile in GATE-19 (ECE) among 104782 candidates, received MHRD fellowship for M.Tech at IIT Guwahati from 2019-2021.