

Kasak Gupta

✉ kasakgupta2051@gmail.com | [🌐 LinkedIn](#) [📄 LeetCode](#) [📞 6397435567](#)

Technical Skills

Languages: Java, JavaScript

Backend: Node.js, Express.js, REST APIs, Microservices

Databases: MongoDB, MySQL

Cloud & Tools: AWS, Docker, Jenkins, Splunk, ArgoCD, Git/GitHub

Concepts: Data Structures & Algorithms, System Design, Agile

Work Experience

Celigo

June 2025 - Present

Software Engineer 2

- Drove the backend implementation of the **large Resource Management microservice**, extracting 3 sharing domains and migrating 20+ API endpoints into a dedicated **User Management Service**, while decoupling shared data-model dependencies across multiple services to enable independent ownership and scaling.
- Engineered backend access management for **MCP End Users**, introducing **group-based, capability-level authorization** to replace per-user, per-server access and developing APIs for Roles, PermissionSets, bulk access assignment, capability-set cloning, and invitations to support scalable MCP access management.
- Designed and implemented a **rule-based webhook processing pipeline** with challenge detection and path-to-records extraction, handling HTTP headers, query parameters, nested request-body rules, JSON/XML payloads, record chunking, parent-data preservation, and configurable responses.
- Drove the **integrator-common-util decomposition**, splitting the shared utility repository into **3 focused repositories** external-wrappers, api-helpers, and service-helpers, to reduce cross-service coupling and improve modularity and independent maintainability across services.
- Investigated and resolved **production bugs and reliability issues** across backend services, including webhook processing, user management, authentication, and asynchronous service integrations, improving system stability and operational reliability.
- Redesigned and standardized **100+ system-generated email templates**, introducing responsive HTML layouts and consistent branding to improve maintainability and the customer-facing email experience.
- Node.js, JavaScript, MongoDB, Mongoose, REST APIs, Jest, Docker, Jenkins, ArgoCD

CSG International

February 2023 - May 2025

Software Development Engineer

- Built automation for IAM key rotation across **51 AWS accounts** using AWS Lambda and EventBridge Schedules, resulting in an **80% reduction** in manual workload and service requests.
- Implemented a **real-time state-up alert system** using AWS services, JavaScript, and MySQL to proactively detect potential errors, resulting in a **40% reduction in system downtime** and improving production reliability.
- Implemented a **Common Tracker Architecture** using AWS SQS, EventBridge, Lambda, and S3 to automate payload tracking, dashboard visualization, and report generation, providing real-time operational insights.
- Automated 10+ cloud resource creation and scripting tasks using AWS and Terraform, reducing repetitive manual effort and improving operational efficiency across engineering workflows.
- Collaborated with **geographically distributed teams** to troubleshoot and resolve **100+ real-time production issues**, improving system performance, reliability, and operational responsiveness.
- AWS, JAVA, JavaScript, Python, MySQL, Lambda, API Gateway, S3, Terraform

Education

JSS NOIDA

B.Tech in Information Technology

August 2019 - June 2023

CGPA: 8.3/10

Project Work

EmailAI-Writer: Built a Java Spring Boot app and Chrome extension to generate AI-powered email replies using the Gemini API. Developed RESTful APIs for seamless automation and enhanced productivity. [Link](#), [Github](#)

Covid Info: Programmed web application that provides all updated Covid-19 resources and information from all over India, Constructed separate sections for each resource like oxygen, ambulance, etc, and Added Firebase for creating, reading, updating, and deleting operations. [Github Repository](#), [Link](#)