

Soumyodeep Dolui

doluisoumyodeep@gmail.com | +91 9330099091 | Kolkata

CAREER OBJECTIVE

Detail-oriented and passionate Computer Science graduate eager to learn new concepts and apply academic knowledge and technical skills in Microservice Architecture, Web development, and System Design to solve real-world problems and contribute to an organization's growth.

WORK EXPERIENCE

Backend Development • Internship

Sep 2025

JP Morgan & Chase, Virtual

- Completed the JP Morgan & Chase Software Engineering Virtual Experience on Forage.
- Set up a simulated project environment and integrated Kafka and H2 databases.
- Developed and tested REST APIs and controllers to handle backend operations.
- Gained hands-on experience in Java-based backend development and microservice integration.

EDUCATION

Bachelor of Science (B.Sc), Computer Science Honours

2022 - 2025

Gurudas College

Percentage: 71.74%

PORTFOLIO

[Portfolio link ↗](#)

[GitHub link ↗](#)

[Leetcode link ↗](#)

PROJECTS

[Home Electricity Bill Calculator ↗](#)

Jun 2026 - Jul 2026

- Developed a web-based application to accurately split household electricity bills between two families based on individual air conditioner (AC) power consumption and a shared common electricity charge.
- Designed business logic to calculate appliance-wise electricity usage and distribute the total bill fairly by combining AC-specific consumption with common household expenses.
- Built the backend using Spring Boot with Spring Data JPA (Hibernate) for data persistence and implemented server-side rendering using Thymeleaf.
- Developed an intuitive user interface for entering electricity meter readings, AC usage details, and generating accurate bill distribution results.

[QGen - AI-Powered Question Paper Generator & Editor ↗](#)

May 2024 - Present

- Designed and developed a full-stack enterprise platform automating assessment creation using Java, Spring Boot, and PostgreSQL.
- Integrated Google Vertex AI (Gemini Pro) to generate, edit, and analyze question papers intelligently.
- Implemented Spring Security with JWT authentication and optimized OTP verification using Redis caching.
- Integrated Mailgun API, Google Cloud Storage, and Razorpay for email, file, and payment services.
- Currently extending the system into a cross-platform Flutter app for Android, Linux, and Windows.

End-to-End Encrypted Chat Application (Microservices Architecture)

Jan 2026 - Present

- Developing a scalable, end-to-end encrypted real-time chat application using a microservices architecture, with independent services for authentication, user management, messaging, and notifications.
- Implementing REST APIs for authentication and conversation management, and WebSockets for low-latency real-time message delivery.
- Integrating Apache Kafka as the event streaming platform to enable asynchronous communication and improve scalability between microservices.
- Using Spring Data JPA (Hibernate) for persistent storage of users, conversations, and messages, while leveraging Redis for caching and temporary data to improve application performance.
- Securing the application with JWT-based authentication and designing the system to support end-to-end encrypted messaging with a focus on security, scalability, and fault tolerance.

SKILLS

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|-------------------------------------|-------------------|---------|
| • Backend development | • Spring Boot | • Java |
| • Database Management System (DBMS) | • Web development | • Redis |

EXTRA CURRICULAR ACTIVITIES

- - Trained in Indian Classical Vocal Music for 13 years under professional guidance.
 - Performed in various cultural and college-level musical events.
 - Trained in Electronic Keyboard from Trinity College London.
 - Passionate about blending music with technology and creativity.

ADDITIONAL DETAILS

- Google Cloud Skills Boost: Java Microservices (Spring Boot & Spring Cloud). Microsoft Learn: Cloud Concepts, Azure Architecture & Services, Azure Management & Governance. Built and deployed full-stack Java apps on Google Cloud.