

# SOUNAK DUTTA

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## EDUCATION

<b>VIT University, India</b> Bachelor of Technology (B.Tech), Computer Science and Engineering	<b>-July 2026</b> <i>CGPA: 8.1</i>
<b>Delhi Public School, Ruby Park, Kolkata</b> Higher Secondary Education (CBSE)	<b>-July 2021</b> <i>Percentage: 81%</i>
<b>South Point High School, Kolkata</b> Secondary Education (CBSE)	<b>-July 2019</b> <i>Percentage: 91%</i>

## TECHNICAL SKILLS

**Programming Languages:** Java (OOP, DSA), Python

**Databases:** MySQL, PostgreSQL

**Tools & Frameworks:** Spring Boot(REST APIs, Spring MVC, Validation), Spring Security, Spring Data JPA, WebSockets, Docker, Maven, API Gateway (request routing, authentication forwarding)

**Core Knowledge:** Data Structures & Algorithms, OOPs, Machine Learning, Computer Vision, Reinforcement Learning, Operating Systems

**Certifications:** AWS Academy Graduate: Cloud Architecting, AWS Academy Graduate – Cloud Foundations, AWS Educate: Introduction to Cloud 101

## PROJECTS

**Blog Management Backend** *Spring Boot, Spring Security (JWT), Spring Data JPA, MySQL* **2025**

- Developed a RESTful blog backend using Spring Boot, implementing JWT-based authentication with Spring Security to secure 10+ REST endpoints for login, posts, categories, and tags.
- Implemented CRUD APIs for posts with DRAFT and PUBLISHED workflows, including category and tag management with filtering support.
- Integrated Spring Data JPA & Hibernate for persistence and added global exception handling with proper HTTP responses (400/401/403/404).

**Blog Platform(Microservices)** *Spring Boot, Spring Security, Docker, API Gateway, PostgreSQL* **2025**

- Designed and implemented a Spring Boot-based microservices architecture with 4 independent services (User, Post, Category, Tag) and a centralized API Gateway for request routing.
- Implemented stateless authentication using Spring Security with JWT, enabling secure login, token validation, and role-based access control across protected endpoints.
- Developed REST APIs using Spring Data JPA & Hibernate, with service-level data ownership and PostgreSQL persistence, ensuring loose coupling and scalability.
- Containerized services using Docker (multi-stage builds), deployed the User Service, and built a JavaScript frontend to validate end-to-end functionality with secured APIs.

**Real-Time Chat Application** *Spring Boot, Spring Security, WebSockets, REST APIs* **2025**

- Built a real-time chat backend using Spring Boot and WebSockets, enabling instant message delivery through persistent connections
- Designed 5+ REST APIs for application logic and request handling, maintaining clear separation between HTTP-based workflows and WebSocket communication.
- Built a JavaScript frontend integrating REST and WebSocket APIs to validate end-to-end messaging.

## CO-CURRICULAR ACTIVITIES & ACHIEVEMENTS

**Public Speaker & Chess Player:** Judged 10+ debating/public speaking events and captained school chess team, securing 2 golds, 1 silver, and 1 bronze.

**Student Event Coordinator, Robotics Club:** Organized and led a robotics workshop for 70+ students, boosting club participation by 30%. Introduced event logistics and team management practices adopted for future club operations.