

# SNEHA ROY

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in [linkedin.com/in/sneharkive](https://www.linkedin.com/in/sneharkive)    🐙 [github.com/sneharkive](https://github.com/sneharkive)    🏠 [leetcode.com/u/sneharkive](https://leetcode.com/u/sneharkive)

## EDUCATION

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|--|---|
| <b>Master of Computer Applications (Pursuing)</b><br>University of Engineering & Management, Kolkata (UEM) | <b>2024 – 2026</b><br><b>CGPA: 9.37</b> |
| <b>Bachelor of Science in Physics</b><br>University of Calcutta (Vivekananda College, Thakurpukur)         | <b>2020 – 2023</b><br><b>CGPA: 7.93</b> |

## TECHNICAL SKILLS

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| <b>Languages</b>                           | Java, JavaScript, TypeScript, Python, C, C++   |
| <b>Frontend</b>                            | ReactJS, TailwindCSS, Redux Toolkit  |
| <b>Backend</b>                             | Spring Boot, Spring AI, Apache Kafka, RabbitMQ, Redis  |
| <b>Databases</b>                           | MongoDB, MySQL, PostgreSQL   |
| <b>DevOps &amp; Cloud</b>                  | Docker, AWS  |
| <b>Machine Learning &amp; Data Science</b> | Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, Statistics   |
| <b>Version Control</b>                     | Git, GitHub  |
| <b>Core CS Concepts</b>                    | Data Structures & Algorithms, Object-Oriented Programming,<br>Operating System, Computer Networks, Database Management Systems |

## PROJECTS

### Job Portal Website (Microservice Architecture) [🔗 GitHub Repository](#)

Built a large-scale job portal platform using **Spring Boot**, **ReactJS**, **Redux**, and **Docker**, with services for **Auth**, **User**, **Profile**, **Job** & **Notification**. Integrated **Kafka**, **RabbitMQ**, **Feign**, **Redis**, **MongoDB**, and **MySQL** for communication, caching, and persistence.

(Earlier developed as a **Monolithic Version**: [🔗 Live Demo](#) — [🔗 GitHub Repository](#))

### AI Fitness Tracker (Microservice Architecture) [🔗 GitHub Repository](#)

Developed a fitness tracking application using a **microservice architecture** with **Spring Boot**, **Spring Cloud**, **Eureka Server**, **API Gateway**, and **ReactJS**. Designed four independent services—**User**, **Activity**, **Suggestion**, and **Tracking**. Enhanced with an **AI module** to deliver personalized activity suggestions and secure authentication via Spring Security.

### URL Shortener Web Application [🔗 Live Demo](#) — [🔗 GitHub Repository](#)

Built a secure URL shortener using **ReactJS**, **TailwindCSS**, **Spring Boot**, and **MySQL**. Features include **JWT authentication**, RESTful APIs for redirection, and a responsive UI.

## CERTIFICATIONS

**Machine Learning with Python** — IBM (Coursera). Gained hands-on experience in supervised and unsupervised learning, model evaluation, and regression/classification algorithms using Scikit-learn in Python.

**Introduction to Cloud Computing** — IBM (Coursera). Learned fundamental cloud concepts, deployment models, virtualization, and cloud service models (IaaS, PaaS, SaaS).

**Introduction to DevOps** — IBM (Coursera). Developed an understanding of DevOps culture and automation practices for efficient software delivery.