

# SNEHA ROY

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 Kolkata, India

 Portfolio

 [github.com/sneharkive](https://github.com/sneharkive)

 [leetcode.com/u/sneharkive](https://leetcode.com/u/sneharkive)

## EDUCATION

**Master of Computer Applications (Pursuing)** 2024 – 2026  
University of Engineering & Management, Kolkata (UEM) CGPA: 9.37

**Bachelor of Science in Physics** 2020 – 2023  
University of Calcutta (Vivekananda College, Thakurpukur) CGPA: 7.93

## TECHNICAL SKILLS

<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, 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.