

# RITANKAR JANA

Kolkata, West Bengal, India

8334826325 [ritankar.jana.official@gmail.com](mailto:ritankar.jana.official@gmail.com) [riyal-rj/](https://www.linkedin.com/in/riyal-rj/) [riyal-rj/](https://www.instagram.com/riyal_rj/) [Ritankar](https://www.ritankar.com) [logiknest-RJ](https://logiknest-RJ.com) [@jana\\_ritankar](https://twitter.com/@jana_ritankar)

Software Developer passionate about building scalable backend systems and AI-powered solutions. Skilled in developing APIs, optimizing databases, and integrating machine learning to solve real-world problems. Driven by clean code, innovation, and continuous learning to deliver impactful, future-ready technologies.

## Education

### Academy of Technology

Bachelor of Technology in Computer Science (CGPA: 8.92/10)

2021 – 2025

Hooghly, West Bengal

### W.W.A Cossipore English School

I.S.C (Percentage: 89.50%)

2018 – 2020

### W.W.A Cossipore English School

I.C.S.E (Percentage: 90.75%)

Kolkata, West Bengal

2018

Kolkata, West Bengal

## Experience

### Soefia Education Incorporated

Software Engineer (Intern)

Jul 2025 – Aug 2025

Boston, Massachusetts, USA (Remote)

- Deployed a **multi-tenant architecture** on AWS (ECS, S3, Amplify, Secrets Manager), improving scalability and ensuring secure credential management for 500+ users.
- Enhanced **backend reliability** by identifying and resolving edge cases in **authentication APIs**, validated with rigorous **pytest unit tests**, reducing potential authentication failures by ~30%.
- Improved **product quality** by conducting **functional testing** and systematically reporting bugs, cutting defect resolution cycle time by 20%.

## Projects

### Whispr - Chat Application

React, Node.js, Express, MongoDB, Socket.IO, RabbitMQ, AWS [Code] Sept 2025

- Architected a **microservices-based real-time chat platform** with separate **user, chat, and email services**, enabling **1-to-1/group messaging**, media sharing via AWS S3, and live presence using **Socket.IO**.
- Implemented secure **OTP-based authentication** with **JWT persistence** and a **RabbitMQ-powered email service** for notifications, ensuring high throughput and reliability.
- Designed scalable **RESTful APIs and socket events** with admin features like add/remove members, rename group, and chat deletion; deployed on **AWS EC2 + PM2**.

### Stokis - Stock Prediction Platform

FastAPI, CrewAI, MongoDB, Transformer [Code] Oct 2024 – May 2025

- Led a **5-member team** developing a stock prediction platform using **Yahoo Finance data**, integrating technical indicators with a **CNN-BiLSTM model** achieving **R<sup>2</sup> = 0.95**.
- Fine-tuned a **BERT-based model (FinBERT)** on a custom dataset for sentiment classification, reaching **97.2% accuracy**.
- Developed a **FastAPI microservice** automating real-time stock news fetch, filter, and summarization via **SerpAPI, Playwright, CrewAI, and MongoDB**.

### TriNayan: AI-Powered Currency Detection

YOLOv8, ViT, OpenCV [Code] Jun 2024 – Sept 2024

- Designed an assistive AI solution for the visually impaired using **YOLOv8** and **Vision Transformers (ViT)**, achieving **70% accuracy** in currency note recognition.
- Enhanced reliability by 75% through real-time annotated image delivery with **OpenCV and Python**, improving user independence and trust.

## Technical Skills and Interests

**Languages:** Java, Python, Javascript

**Database:** MySQL, Oracle, MongoDB, Redis

**OS:** Windows, Linux

**ML/DL Libraries:** Scikit-Learn, Pandas, Matplotlib, LangChain, NumPy

**Web Frameworks:** Node.js, Express, React

**Cloud(AWS):** ECS, S3, EC2

## Extracurricular Activities and Achievements

**AWS Cloud Quest Cloud Practitioner**

Jun 2025 - Jul, 2025

**Participated in HaRBInger 2024- RBI Hackathon**

May 2024 – Oct 2024

**Talent Next Java Certification from Wipro**

May 2024 – Sept 2024

**Open-source Contributions in Hugging Face**

2024