# RUDRA PATIL

rp4216@nyu.edu | LinkedIn Profile | Google Scholar

#### **EDUCATION**

**New York University** 

**GPA: 4.00** 

Master of Science - Computer Engineering

Sep 2024 - June 2026

**Vellore Institute of Technology** 

**GPA: 8.73** 

Bachelor's of Engineering - Computer and Electronics Engineering

July 2018 - June 2022

### **SKILLS**

- Programming Languages: Java, Python, JavaScript, C++, C, TypeScript, PHP, SQL
- Development and Databases: PostgreSQL, MongoDB, Elasticsearch, Map Reduce, PySpark, Kafka
- Frameworks: React, Node.js, Spring Boot, Redux, Angular, Spring Framework
- Cloud and DevOps: Kubernetes, Docker, Git, Redis, RabbitMQ, Linux, Azure, AWS

## WORK EXPERIENCE

#### Societe Generale Global Solution Centre

Bangalore, India

Software Engineer

- June 2022 Present o Developed a project of Real-time Intraday Liquidity Cockpit for Treasury Payments using Java, Springboot, PostgreSQL,
- and React Framework using CI/CD and Agile practices. o Implemented three robust microservices to support a real-time payment lifecycle, ensuring high scalability and performance. Leveraged multithreading and API throttling to efficiently handle 0.8 million requests daily.
- Engineered a scalable solution for SWIFT payment processing, successfully managing over 250,000+ real-time payment transactions daily.
- o Collaborating with Business Teams and Production Support Teams from Paris, New York, and Hong Kong Business Centres for various functional requirements.
- o Delivered on Production Monitoring by enhancing observability using ELK Stack (Elastic, LogStash and Kibana) for greater visibility on infrastructure and microservices.

## Stociall - India's first Social Investment Platform

Mumbai, India

Founding Team - Software Engineer Intern

Apr 2021 - June 2021

- o Launched a mobile application on PlayStore within 1 month of starting. Reached out to 1000+ users through mediums like college seminars and social media.
- Designed a scalable backend system using Java, SpringBoot and MongoDB and Google Kubernetes Engine (GKE).
- o Implemented Google Cloud KMS encryption to secure users' personal and financial data.
- o Integrated with Zerodha and AngelOne APIs to fetch the Stock and Mutual Funds data of 500+ users.
- Reached a milestone of 350 users out of which 25% of them linked their portfolios on the app with a total portfolio value of 30 Million Indian Rupees.

### **Ernst and Young**

Mumbai, India

Technology Consulting Intern

*Apr* 2021 - *June* 2021

- o Spearheaded an application for webpage testing by applying a **smart testing approach** that automates the traditional testing process into a single-click user experience.
- Automated UI testing process, which estimates increased productivity and reliability, and reducing manual effort by 30%.
- Implemented automated generation of testing reports using Streamlit Framework and Python.

## **PROJECTS**

- AI-Enabled Natural Language Interface for Redshift: Developed a natural language interface for Redshift using OpenAI API for converting English queries to SQL. The interface integrates with PowerBI, enabling direct interaction and downstream visualization control. Key features include dynamic query generation, contextual suggestions, and continuous improvement through ML. Implemented predictive analytics, anomaly detection, and automated report generation.
- Video Based Micro-Learning Platform using Django: Utilized Django for the backend to manage data and business logic, and React for the frontend to ensure a responsive and dynamic user interface. Implemented features for user authentication, video streaming, and a user-friendly dashboard, enabling an efficient and engaging learning experience.

# SELECTED PUBLICATIONS

- Enhancement in Skin Cancer Detection using Image Super Resolution and Convolutional Neural Network Elsevier 2022
- Patent Vax India Tech: Provident Vaccine Distribution Strategy for India Indian Patent Office 2021
- Cluster-Centric Based Hybrid Approach for Cricket Sports Analytics Using Machine Learning Springer
- A machine learning-based approach for quantifying company assets using structural credit risk models. ICMISC 2022, **Springer**

#### HONORS AND AWARDS

- 'Emerging Talent' Award in our department at Societe Generale
- Spot Award for meeting critical delivery timelines and maintaining production supervision at Societe Generale
- Secured 2nd position amongst 1500+ teams in EY Techathon for Prioritising vaccine delivery using AI/ML
- Finalists of the ZS Challenge'21 for solving Business Consulting, Operation, and Technology case study.
- Received the 'Best Paper Award' at Springer International Conference on Deep Sciences for Computing 2022.