Shreenidhi Acharya

New York, NY | [LinkedIn](#) | 585-490-5750 | sa8267@rit.edu | [Portfolio](#)

EDUCATION

Rochester Institute of Technology, *MS in Computer Science (GPA: **3.76**)*   *August 2022 - May 2025*
University of Mumbai, *BE in Computer Engineering (GPA: **4.0**)*   *July 2015 - May 2019*

SKILLS

Programming Language: Python 3.8, Linux/Shell Scripting, C/C++, Java 17
Web Technologies: HTML, CSS, JavaScript, React.js, Redux, Firebase, Node.js, TypeScript
Frameworks & Build Tools: Apache Airflow and Spark, Jenkins, Flask, FastAPI, Spring boot
API Services & Libraries: REST, SOAP, XML, WSDL, Pandas, NumPy, Psycopg, Scapy, Socket
Databases & Cloud: PostgreSQL, MongoDB, MySQL, AWS, Azure

WORK EXPERIENCE

London Stock Exchange Group   **Buffalo, NY**
Software and Database Developer Intern   *September 2023 - December 2023*
- Designed and implemented a robust data pipeline in **Airflow** using **Python** on **Linux** servers boosting the data team's index workflow efficiency by **60%**.
- Optimized the existing data pipeline to handle execution for both **historical and scheduled dates** within the same workflow.
- Developed a **Shell script** by adding two flags to fetch stock prices and performance indicators for specific dates, improving search time by **20 hours**.
- Utilized **PySpark API** to load **10,000** index records into enterprise databases, reducing data loading and processing time by **7 hours**.

Tata Consultancy Services   **Mumbai, India**
Senior Software Engineer   *June 2020 - July 2022*
- Developed a billing algorithm in **C++** to prevent unwanted file deletion issues, boosting server performance by **70%** at **50+** customer sites.
- Implemented a Universal Backup Solution for **Linux and Unix** servers using **Shell scripting**, reducing backup and restore time from **24** hours to **8** engineering hours.
- Optimized the architecture of **28 API endpoints** within **Flask-based** web services, impacting a user base of **40,000** with a **42%** faster data retrieval rate.
- Proposed and developed a **PL/SQ**L stored procedure to restore corrupted **MySQL** users, saving the company **$1.67 million** in operational losses.
- Created and shipped an internal bug-tracking tool to monitor microservice logs that reduced debugging time by **10 hours** for **120+** developers.

Tata Consultancy Services   **Mumbai, India**
Software Engineer   *June 2019 - June 2020*
- Debugged and optimized **10** legacy **C++** codebase files using **GDB**, significantly reducing troubleshooting time and enhancing code reliability.
- Created a Jenkins-triggered **bash script** to streamline server setup, facilitating a daily workflow for a team of **11** members.
- Collaborated to automate **56** sanity check operations using **Python scripting**, speeding up feature testing by **65%** and reducing post-release defects by **25%**.
- Designed a multi-branch **Jenkins** pipeline using **Git Flow** for a Spring Boot-based application, reducing development time by **10 hours**.

PROJECTS

Query System | Flask, React.js, MongoDB, Data Processing
- Performed cleaning of service dataset using 15 SQL queries and Pandas library before storing in MongoDB.
- Created and integrated **5 RESTful APIs** in **Flask** to extract relevant information and display data trends on a React-based User Interface.
- Achieved web coordination policy for the **RESTful APIs** in the backend with the current state of the user.

Genre World | React.js, Flask, XML, SOAP, REST
- Developed a tool in **Flask** to display author details and their book prices, utilizing **public REST and SOAP APIs** supporting data from over 150 genres.
- Extended the tool's features by adding user history and allowing users to add their preferred genres.

Airline Analysis | Python, PostgreSQL, Azure
- Integrated **Azure Database for PostgreSQL** for faster query execution by centralizing access to a single database.
- Utilized **Azure Synapse Analytics** to create interactive data visualizations for flight performance metrics.