Shreenidhi Acharya

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Education

Rochester Institute of Technology	Aug 2022 - Dec 2024
Master of Science in Computer Science (GPA: 3.7 / 4.0)	*Rochester, New York*
University of Mumbai	Jul 2015 - May 2019
Bachelor of Science in Computer Science (GPA: 4.0 / 4.0)	*Mumbai, India*

Relevant Coursework: Computational Problem Solving in Python, Advanced Object Oriented Programming in Java, Big Data, Web Services and Service Oriented Architecture, Software Engineering, Machine Learning, Algorithms

Technical Skills

Languages: Python 3.8, Linux/Shell Scripting, Java 17, C/C++
Web Technologies: React.js, Redux, Firebase, HTML, CSS, JavaScript, Node.js, TypeScript, Express.js, SPA
Frameworks & Build Tools: Spring Boot, Spring MVC, Flask, FastAPI, Node, Maven, Apache Airflow and Spark, Jenkins
API Services & Libraries: REST API, SOAP, XML, Pandas, NumPy, Psycopg, Scapy, Matplotlib, statistics
Database: PostgreSQL, MongoDB, MySQL
Tools & IDE: Git, Bitbucket, JIRA, Confluence, Postman, Ansible, Jupyter Notebook, Anaconda, Nessus Scan

Experience

London Stock Exchange Group	Sept 2023 – Dec 2023
Software Development Engineer Coop	*Buffalo, NY*

- Led the execution of a Proof of Concept (PoC) orchestrating the **migration** of legacy data processing scripts to a task scheduler like **Airflow and Celery** using Python.
- Optimized the code to handle manual triggers for historical dates along with scheduled triggers in the workflow.
- Proposed **3** enhancements that led to the quick identification of defects before deployment of the PoC.
- Configured **SSL and LDAP authorization** for Airflow workflows, enhancing security measures.
- Addressed critical production bugs with **7** Python scripts and SQL queries, enhancing **system stability** by **70%**.

Tata Consultancy Services	Jun 2019 - Jul 2022
Systems Engineer	*Mumbai, India*

- Optimized a **billing algorithm in C++** to address unwanted file deletion issues, resulting in an **80%** enhancement in server performance at customer sites.
- Co-created a Python-based **automation** sanity check script, accelerating new feature testing by **65%** and reducing post-release defects by **25%** with **2** team members.
- Led the implementation of USB backup solution in a **Linux/Solaris** environment through Bash scripting, achieving a **75%** reduction in backup/restore time.
- Developed a **Jenkins-triggered bash script** for swift server setup, enabling a daily workflow setup for a team of **7**.

Projects

Laptop Order System | *FastAPI, Python, Motor, MongoDB, Jest*
- Developed 5 RESTful services in a FastAPI ecosystem and utilized Motor library for asynchronous communication with MongoDB.
- Implemented comprehensive unit tests using Jest to verify the functionality and integrity of each RESTful service.

Genre Globe | *Flask, Python, MySQL, React, Bootstrap, WSDL, XML, AWS*
- Built a Flask-based dynamic website fetching genre-based real-time book and author details from 3 RESTful APIs.
- Implemented a real-time history feature for each user using MySQL to get the list of previously queried genres.

LinkedIn Clone | *React, Redux, TypeScript, HTML5/CSS3, Bootstrap*
- Designed a LinkedIn clone with four essential features using React.js and Utilized Redux to manage user's data across 10 application components.

Mortgage Calculator | *React, Chart.js, Material-UI, Bootstrap*
- Implemented a responsive and dynamic mortgage calculator for enabling user-friendly payment visualization.

Todo-list | *React, Bootstrap, Redux*
- Designed a todo list and employed redux for central management by including task creation, deletion, and completion enhancing the overall functionality.