# Sai Nagesh Gowra Balaji

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## EDUCATION

**New Jersey Institute Of Technology (NJIT), Newark, NJ** *Expected Graduation : December 2024*

*Master of Science (MS), Computer Science* *CGPA : 3.625*

## WORK EXPERIENCE

**Gurudatta Jewellers** GitHub **Chittoor, India**

***Software Developer and Jewelry Manager*** ***June 2021 - August 2023***

- Created a dynamic web page utilizing the MERN stack to showcase live gold and silver prices alongside a comprehensive 40-year price history and implemented web scraping techniques to automate updates in MongoDB
- Orchestrated the entire product cycle for a web-based jewelry software using Django framework integrating sales, billing, purchases, repairs and customer complaints functionalities into ERP system of business operations.
- Provided supervision and training to staff, contributing to enhanced team performance and productivity. Demonstrated strong leadership, communication, and organizational skills, making significant contributions to the growth and success of the family business.

**BNY Mellon Technology** **Chennai, India**

***Associate Software Engineer (Grad Dev)*** ***July 2020 - May 2021***

- Implemented advanced backend features, such as efficient data extraction, and utilized Apache POI libraries for Excel manipulation to streamline data processing and reporting tasks. Additionally, incorporated email capabilities using the FTL template engine.
- Synchronized tables for graphical metrics to ensure a visually engaging and easily understandable user experience.
- Collaborated with the R&D team and pioneered the development of an interface for automating Behavior-Driven Development (BDD) testing scripts for web pages in the Client-Onboarding (COB) portal.
- Executed BDD automation testing scripts for diverse composite dashboards within the NetX360 application.
- Conducted manual testing activities including Product Life Cycle testing, feature/bug fixes testing, and functional/regression testing within Agile sprints using JIRA for task management.
- Designed and executed over 500+ test cases derived from 40+ unique stories using Java, demonstrating collaboration and support for the business and testing teams.

***Software Developer Intern*** ***January 2020 - June 2020***

- Developed Quality Engineering Dashboard(QED) using SpringBoot microservices integrating with Oracle DB and SQL Server ensuring seamless performance with data integrity, accessibility and reliability by leveraging a scalable and robust backend driven infrastructure.
- Utilizing jQuery and Bootstrap allowed for the development of a user-friendly and intuitive interface, enhancing accessibility and usability for internal LOB teams.
- Documented technical workflows and reports using tools like Confluence to support development team members and enhance project visibility.
- Authored precise automation testing scripts using Java-API Testing, TestNG, and the Cucumber Framework for diverse QED portal dashboards.

## SKILLS

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|---|---|
| Programming Languages | :: C, C++, JavaScript, Java, Python, PHP, R(Foundational) |
| Skills | :: Data Structures and Algorithms, Java-RESTful web-services, Rest Assured, Apache POI, jsonNode |
| Technologies | :: Spring Boot, Microservices, FTL, Django, jQuery, Flutter, React, Node, Machine Learning |
| Testing Automation | :: Java-API Testing, TestNG, Cucumber Framework, Selenium |
| QA Testing | :: Product life cycle, Feature/Bug fixes, Functional/Regression testing, Agile Sprints, JIRA |
| Database Skills | :: Oracle DB, SQL Server, MySQL, PL/SQL, MongoDB |
| Tools and Cloud | :: Git, AWS |

## PROJECTS

**Gold and Silver Price Prediction** (Machine Learning) GitHub

This project concentrates on predicting gold and silver prices using a Ycharts dataset. The model employs advanced time series algorithms to forecast future price trends, providing investors with valuable information for their investment decisions.

**Prediction of tariff rate for the next session truck load** (Machine Learning) *Academic* GitHub

My academic project focuses on forecasting truckload tariff rates, which is critical for businesses to manage their transportation costs effectively. Utilizing supervised machine learning algorithms, we were able to predict future tariff rates using a dataset of tariff-dependent variables.