

NEHA RAJ

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EDUCATION

- **Master of Science, Computer Science**, Santa Clara University, Santa Clara, CA **June 2024**
- **Master of Technology, Software Systems**, Birla Institute of Technology and Sciences, Pilani, India **May 2021**

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Snap-On Diagnostics, San Jose, CA **June 2023 – Present**

- Contributed towards the development of vehicle diagnostics tool software (OBD Reader) using C++.
- Collaborated with the team in implementing data parsing and analysis algorithms to process vehicle diagnostic data.
- Developed automated test scripts using Robot Framework to ensure reliability by improving the accuracy of testing the diagnostic tools by up to 80%.
- Created a custom Python-based test automation runner to automate the execution of a suite of automated test scripts, improving the efficiency of the testing process and decreasing manual effort by 75%.

Senior Software Engineer, CGI, India **March 2021 – June 2022**

- Developed data models and features to migrate the warehouse inventory system to SAP Order Management Services; materialized data from the legacy system to the new database by importing feed files based on Spring Integration.
- Achieved the highest performance on the team for on-time delivery with zero defects by employing unit test cases, and test classes and ensuring adherence to high code standards by using CI/CD techniques thereby reducing faulty code patterns by 40%.
- Managed cross-functional project modules end-to-end, including new intake and requirement gathering, risk identification, timeline proposal, and technical recommendations to stakeholders, and initiated discussions to improve strategic e-commerce solutions.
- Troubleshoot and fix bugs and technical issues for the production environment, achieving over 95% customer satisfaction rate: document all changes and modifications and train new and existing members of the team.

Software Engineer, Pragati (DMI), India **April 2019 - March 2021**

- Implemented integration of third-party tool (REST API web service) with eCommerce application and led requirement gathering and delivery planning with business.
- Conducted daily scrum calls with the team and communicated weekly meetings with clients to share and update the status of tasks, ultimately reducing backlog tickets by 50% per month.

Systems Engineer, Tata Consultancy Services, India **October 2016 - March 2019**

- Constructed data modeling for users, products, and relations between customers and different user groups to segregate user roles using Java, Spring, Flexible Query, and SQL.
- Developed homepage banners for promotions and offers with client-side validations deploying Javascript and JQuery to improve customer experience and increase revenue by 25% on e-commerce websites.

TECHNICAL SKILLS

Programming: Java, Python, GoLang, C/C++, Spring MVC, SpringBoot, Rest API, SAP Commerce Cloud (Hybris)

Database: MSSQL, OracleDB, MongoDB

ACADEMIC PROJECTS

- **AgileTaskPro (<https://github.com/NA0724/TaskManagementTool>)** - Designed a productivity application for a dynamic team to manage their day-to-day tasks. Implemented features such as user authentication, user roles and permissions, task creation and management, report generation, notifications, and collaboration.

Tech: Java 17, Spring Boot, MongoDB, ReactJS, CSS, HTML, Bootstrap, and Postman

- **Rental Hub (<https://github.com/NA0724/RentalHub>)** – Built an innovative application for the Rental Management Office, leveraging *Bootstrap, OracleDB, PHP, and JavaScript* that efficiently manages rental properties, owners, and renters. Implemented a relational database for seamless data storage and transaction management, enabling effective monitoring and organization of rental properties and lease agreements.

- **GoVacay (https://github.com/NA0724/Go_Vacay)** - Created a web application for a bed and breakfast. The application utilized various libraries and frameworks, such as govalidator, chi router, and no surf middleware, to enhance its functionality and security.

Tech: Go, PostGreSQL, CSS, HTML, JavaScript, Bootstrap and Postman