

# SRINIDHI NUKALA

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## EDUCATION

**Syracuse University - College of Engineering & Computer Science, Syracuse, NY**

*Jan 2023 - Dec 2024*

Master of Science in Computer Science

**Relevant Coursework:** Design and Analysis of Algorithms, Data Structures, Data Base Management Systems, Computer Architecture, Operating Systems, Object Oriented Design, Machine Learning, Structured Programming with Haskell.

## EXPERIENCE

**Oracle India Pvt. Ltd, Hyderabad**

*JuI 2021 - Nov 2022*

*Web Application Developer 2*

- Spearheaded design and implementation of new features for the SOAP, and REST APIs, emphasizing creation of high-quality, maintainable code using Oracle JET Framework, and Java resulting in **50%** reduction of response time.
- Elevated the performance of existing REST APIs by **15%** through rigorous profiling, debugging, and refining, managed to elevate resulting in faster response times, improved scalability, and a better overall user experience.
- Strategized on **CI/CD** pipelines, deploying Docker containers and Kubernetes pods and microservices, leveraging cloud computing platforms, enhancing scalability and reliability.
- Established a dashboard page displaying usage statistics and tracking all application flows, thereby enhancing performance in Frontend. Created a novel user login interface tailored for cloud-based database users.

*Application Developer 1*

- Fulfilled the role of Full stack Developer within the Utilities Test Accelerator team, a test automation tool facilitating users to generate automated scripts and contributed at all stages of software development life cycle.
- Developed a unit testing API using JUnit and Mockito, integrating web services, that reduced the testing and debugging time by **90%**, significantly improving the quality of banking application modules.
- Mentored 4 new hires conducting seminars, knowledge-transfer sessions, code reviews, and hands-on training sessions.
- Demonstrated time management and cross functional skills by executing comprehensive testing and debugging, ensuring uninterrupted application development across diverse teams.

**Application Developer Intern, Oracle India Pvt. Ltd**

*Jan 2021 - Jun 2021*

- Acquired invaluable expertise in domains including Web design, troubleshooting, Report writing, Communication skills, and adeptness in operating within an agile environment alongside scrum methodologies.
- Secured application by fixing vulnerabilities. Scrutinized regular code reviews and mobilized best practices to diminish production bugs by **30%**.
- Implemented a feature facilitating utilization of custom language settings within application, ensuring a perfect user experience, leading to a **60%** improvement in client business and usage, by integrating cloud-based solutions and maintaining compliance.
- Professionally crafted responsive user interfaces utilizing HTML, CSS, Java and JavaScript. Seamlessly integrated advanced functionalities including robust search capabilities and execution of components and flows for the web development.

## TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, JavaScript, SQL, PL/SQL, C#, R, Shell Scripting, Ada, .NET, TypeScript.
- **Front-End:** HTML, CSS, XML, Angular.
- **Frameworks:** REST APIs, WSDL, Oracle JET, ExpressJS, NodeJS, SpringBoot, NumPy, Pandas, Scikit-learn, Bootstrap.
- **Databases:** MySQL, Oracle DB, MongoDB, NoSQL, PostgreSQL.
- **Operating Systems:** Windows, Linux, MacOS.
- **Tools:** SQL Developer, Jira, Unity, Postman, Jenkins, Visual Studio, Maven, Gradle, Selenium.
- **Others:** GitHub, DevOps, Docker, CI/CD, AWS, EC2 Instance, DevOps, PHP, Excel, MVC, UNIX/Linux, jQuery, Bash, SaaS, JSON, GCP.

## PROJECTS

**Task Coordinator: React | Redux | MongoDB | Express.js | Node.js**

- Engineered a web application for the students to organize, update, prioritize, and track tasks seamlessly, fostering enhancing productivity and accountability with a 40% increase in efficiency.

**Hostel Management: Angular | MongoDB | Express.js | Node.js**

- Built a Hostel booking platform using Angular for an intuitive UI, NodeJS and ExpressJS for a robust backend, and integrated with MongoDB for efficient data handling and retrieval

**Traffic Sign Recognition using Machine Learning: Python | Numpy | Keras.**

- Designed a deep neural network model using CNN that captures pre-processing images of traffic signs and classifies signs into different categories, a critical function for autonomous vehicles.
- Trained the model using a dataset of 250 traffic images to get almost 90% accuracy.

**HealthWise: Arduino | Python | IOT.**

- Constructed a Health Monitoring System using Arduino and ESP Wi-Fi module to record patient's temperature and pulse over ThingSpeak and Google Sheets to monitor from anywhere aiming for more than 50% reduction of risks.
- Integrated a panic button in the system to send an Email/SMS when the reading goes beyond critical values.