

Sai Surya Prakash Moka

+1 959-867-0017 / saisuryaprakash.moka99@gmail.com | 232 Farmington Ave, Hartford, CT. | [linkedin.com/in/sai-surya-prakash-moka](https://www.linkedin.com/in/sai-surya-prakash-moka)

EXPERIENCE

Ivy Biomedical Systems Inc., Branford, Connecticut

May 2024 – Dec 2024

Role: Software Engineer Intern

Responsibilities:

- **Developed a standalone application to automate defibrillation testing:** Led the end-to-end design and development of a multi-threaded standalone application with a GUI using C# .NET to automate defibrillation testing. This application automates the high-voltage application to patient lead wires through serial communication between the software and hardware test setup. It also logs test results in SQL Server and generates test reports using Microsoft Report Builder.
- **Web application development for Component Information Portal (CIP):** Spearheaded the development of a web-based application using Python, Django framework and libraries like Pandas which is used in the engineering department to assist in bill of material (BOM) management and new part documentation. The application will provide a user-friendly interface for importing and exporting BOMs, downloading datasheets and RoHS certifications, and managing part number coversheets and part number release (PNR) forms.

HCL Tech, Chennai, India.

Oct 2020 - Dec 2022

Client: Allianz Life Insurance of North America.

Role: Senior Software Engineer.

Responsibilities:

- **Modernized VS10 System to Web-based Application:** Contributed to the modernization effort of the VS10 system (platform managing variable life annuities) in migrating the legacy Accent-R language system to a robust Java-based web application which acts as a back-end, significantly enhancing its accessibility and performance.
- **System Module Revamping and Enhancement:** Spearheaded the revamping and enhancement of multiple system sub-modules, executing seamless data migration from flat files to SQL tables (Migrated over 1200 datasets into SQL tables), automating legacy code transformation into Java, subsequent code refactoring, integrating REST endpoints, and rigorous testing of these endpoints for optimal functionality.
- **Front-end development and Integration using Angular:** Took charge of Angular UI development, ensuring end-to-end integration of user interfaces with backend functionalities. Executed and validated predefined unit test cases, conducted comprehensive code coverage and quality checks leveraging tools like Jacoco and SonarQube. Automated deployment of the refined code into Dev servers by building CI/CD pipelines using Jenkins. Transformed over 25 sub modules of the application from Legacy code to Java.

TECHNICAL SKILLS

- **Languages:** C, C++, Java, Python, C#, SQL
- **Web Technologies:** HTML 5, CSS, JavaScript, Ajax, Node JS, Angular, React JS, Maven, Spring, Spring Boot, Hibernate, Spring Data JPA, Spring Security, Django Framework, RESTful Webservices, Microservices.
- **Frameworks & Libraries:** Java FX, Junit testing, JDBC, Windows Presentation Framework (WPF), Pandas.
- **Tools & Technologies:** SQLMS (Microsoft SQL Server Management Studio, Postman (REST APIs testing), SonarQube, ForgeRock, Git, Basics in AWS cloud computing, AWS Elastic Bean stack, Microsoft Excel, Microsoft Power point, Agile SDLC methodology.
- **Soft skills:** Time management, Problem solving, Organizational skills, Teamwork and Excellent communication skills.

EDUCATION

University of New Haven

West Haven, CT.

M.S in Computer Science, Tagliatela College of Engineering, **CGPA: 4.0/4.0**

Jan 2023- Dec 2024.

Related Courses: Intermediate Programming in C & C++, Computer Networks and Data Communication, Intro to Computer Security, Database Systems, Data Structures and algorithms, Operating systems, Java Programming, Web development, Windows Network Administration, Python Programming, Distributed Database Systems, Intro to Artificial Intelligence, Cloud Computing and Big Data.

PROJECTS

Vs10 Info Hub

- **Web-Based VS10 Inventory Search:** Created a highly scalable and reliable web-based search application facilitating access to the VS10 System Inventory.
- **Tech Stack:** Developed using JDK 11, Angular, spring framework, and MS SQL for robust functionality and user-friendly design.

Time Sheet Management System

- **Functionalities:** Signup, Login, Add Time Entry, View Entries, Update/Delete Entry, Calculate Wage, Wage Report generation.
- **Tech Stack:** Developed using JDK11, Angular, Spring Boot, MSSQL (Hosted in AWS RDBMS), Spring Data JPA, HTML5, CSS and AWS Elastic Bean Stack.

ACHIVEMENTS

- **Promotion to Senior Software Engineer:** Received promotion to Senior Software Engineer within a year due to consistently delivering high-quality code to the client and for developing various automation scripts, applications which significantly added value to the client and got recognized as *Rookie Rock Star* while working under HCL Technologies Ltd.
- **29th Convocation University Gold Medalist:** Gold Medal recipient at the 29th Convocation for outstanding academic achievement in Electrical and Electronics Engineering throughout the bachelor's program.