

Soundarya Sriramapura Vijayakumar

Kalamazoo, MI | (269)550-0612 | s.sriramapuravijayakumar@wmich.edu | <https://www.linkedin.com/in/soundaryasvijayakumar/>

EDUCATION

Western Michigan University, Kalamazoo MI : MS in Computer Science , GPA: 3.6
RV College Of Engineering, Bengaluru India : BE in Computer Science , GPA : 3.54

January 2024 – December 2025
August 2018 – May 2022

- Skills:**
- Technical Skills:** C, Python, Java, .NET, JavaScript, HTML, CSS, PHP, jQuery, Git, shell scripting, LLM, ReactJS , Cora Sequence, SQL , NoSQL(MongoDB), OOP , Cora Ops Manger, ServiceNow, Linux, UNIX
 - Software :** Proficient in Microsoft Word, Excel, PowerPoint, Outlook and Atlassian Tools (Jira) | **Methodologies:** Agile Scrum, Waterfall
 - Interpersonal Skills:** Strong Internet Research, Excellent Verbal, Quantitative Skills, Time Management, Prioritization Abilities

Research Paper:

Authored a comparative study on business process management tools. The paper evaluates workflow creation capabilities of Cora Sequence and Appian, emphasizing their application in improving organizational efficiency, reducing costs, and enhancing service level agreements. This research assists businesses in selecting appropriate BPM tools based on operational needs and client demands.

WORK EXPERIENCE

Software Developer Consultant | Genpact , Bengaluru India

July 2022 – December 2023

- Cora Orchestration and Cora Sequence** to automate workflows and enhance process management across various projects, leading to a streamlined operation and improved task efficiency. Automated processes to enhance user experience and application performance.
- Developed and integrated applications using HTML, CSS, JavaScript, .Net and various programming languages. Debugged and optimized code, ensuring efficiency and reliability. Managed backend databases with Microsoft SQL and provided user technical support.
- Built scalable, secure, multi-tiered software applications, adhering to agile methodologies. Utilized JIRA for project management and issue tracking, integrating it with Cora Orchestration to oversee development cycles and maintain agile methodologies, ensuring timely delivery of scalable, multi-tiered software applications.
- Developed and maintained business applications using Microsoft Office suite to automate tasks and enhance user experience. Utilized Microsoft Office tools to create reports and presentations, demonstrating strong proficiency in business applications.

Software Developer Intern | Genpact, India

March 2022 – July 2022

- Experienced Front-End Developer with expertise in HTML, CSS, JavaScript, and Asp.NET, specializing in UI design workflows and best practices to create user-centered interfaces.
- Training Facilitator, conducted sessions for HR staff on effectively using the placements portal, significantly enhancing their operational efficiency.
- Designed and Implemented 10 Cora Sequence Modules including User Login, Test Forms, and Interview & Onboarding processes, supporting comprehensive HR functionalities in a placements portal.
- Database Management and Development using SQL to create and manage critical tables (Employee, Candidate, Jobs) for data manipulation operations integral to Cora Sequence workflows.
- Managed End-to-End Workflow with Cora Sequence, developed and deployed an online placements portal for the Human Resource department, enhancing recruitment processes and candidate management
- Demonstrated commitment and performance led to the successful transition from an intern to a full-time role, reflecting dedication and a strong work ethic.

CCTV Research Intern | RV College of Engineering , India

September 2021 – October 2021

- Developed a 'Detection and Recognition of Sign Board Readings in Highways' project using YOLOv4 during an internship, which involved implementing advanced object detection and recognition techniques to enhance real-time traffic management and driver assistance systems.
- This project demonstrated proficiency in machine learning models and computer vision, contributing significantly to safety enhancements and automated navigation aids on highways.

Software Intern | Knowledge Solutions , India

July 2020 – Aug 2020

- Completed a 6-week summer training and internship on Machine Learning with AI using Python, covering supervised, unsupervised, and reinforcement learning techniques.
- Conducted a project on sentiment analysis of restaurant reviews using NLP, effectively applying KNN, SVM, and PCA models to analyse and interpret customer feedback.
- This experience enhanced my analytical skills and provided practical exposure to real-world data processing, significantly boosting my proficiency in predictive analytics and machine learning applications.

PROJECTS

Online Food Ordering System.

August 2020 – December 2020

- Developed an Online Food Ordering System, automating restaurant operations by creating a dynamic database system to manage food items, orders, and customer interactions efficiently using PHP and MySQL. Implemented user-friendly features such as real-time menu updates, order management, and payment processing, enhancing the dining experience and operational efficiency.
- Designed relational schemas and performed database normalization up to the third normal form to ensure data integrity and optimize query performance in a high-volume transaction environment.

Animal Tracker and Health Monitoring System

January 2020 – May 2020

- Developed an Animal Tracker and Health Monitoring System using the LPC 2148 microcontroller, integrating temperature sensors, blood pressure sensors, and a GPS module to provide real-time tracking and health monitoring of animals. Leveraged ThinkSpeak cloud platform to enable continuous data collection and remote monitoring, allowing for efficient analysis and timely health assessments.

IoT-based Mobile Health Hub.

January 2021 – May 2021

- Developed an IoT-based Mobile Health Hub as a part of a minor project, utilizing Raspberry Pi, sensors, and real-time video streaming to provide immediate medical data from emergency vehicles to hospitals Engineered a solution to enhance emergency medical response, leveraging Python, ThinkSpeak Cloud, and Zigbee Wireless Technology for seamless transmission of critical patient vitals and live video to aid pre-hospital care.
- Contributed to healthcare innovation by implementing a system that supports remote patient monitoring, reducing response times and preparing hospital staff ahead of patient arrival, vital during the COVID-19 pandemic.

The Tour Guide App

January 2021 – May 2021

- Engineered a robust Android application as part of the Udacity Android Basics Nanodegree, utilizing MVP architecture, Constraint Layout, and background image processing to optimize UI/UX design and app performance.
- Integrated Google Maps and local caching mechanisms to ensure seamless navigation and data management, adhering to rigorous academic standards for device compatibility.

Sentiment Analysis Using Deep Learning

January 2021 – May 2021

- Conducted research on sentiment analysis of movie reviews using deep learning models including DNN, CNN, and LSTM, achieving optimal performance with LSTM showing the highest accuracy and minimal overfitting.

OTHER WORK EXPERIENCE

Supervisor at Valley Dining Centre | Western Michigan University

April 2024 - Present

- Promoted to Supervisor at Valley Dining Centre within a semester, demonstrating effective leadership and operational acumen. In this role, managed dining operations by overseeing a team of student employees, ensuring seamless shift transitions and maintaining high service standards. Additionally, introduced innovative ideas that boosted sales and improved overall operational efficiency, enhancing the dining experience and workflow.

Student Orientation Leader | Western Michigan University

August 2024 – September 2024

- Led orientation sessions for groups of 10-15 international students, assisting their transition to campus life. Guided students through campus, providing key information about academic and social resources.
- Conducted multiple training sessions to prepare for orientation activities, focusing on cross-cultural communication and student engagement. Provided ongoing support and answered questions during the orientation day, ensuring a welcoming environment for new students.

CERTIFICATIONS

- Introduction to Operating Systems, NPTEL-IITM June 2020
- The Joy of Computing Using Python, NPTEL-IITM. December 2021
- Software Development Processes and Methodologies, Coursera December 2021
- Unity Virtual Reality, Infosys Springboard December 2021
- CUDA Programming Masterclass with C++, Udemy January 2022
- Supervised Machine Learning: Regression and Classification, Coursera March 2025