

# NANDYALA SUNIL VARMA

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## EDUCATION

### University of South Dakota, South Dakota

Aug 2023 – Jan 2025

Master of Science: Computer Science,

*Relevant Coursework: Algorithms and data structures, Machine Learning, Networking security, Computer vision*

### Sathyabama Institute of Science and Technology, Chennai- India

Aug 2018 –May 2022

Bachelor of Engineering in Computer Science, CGPA: 8.2/10.0

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## TECHNICAL SKILLS

**Programming:** Python, SQL, Angular, HTML, CSS, Java

**Tools & Technology:** GIT,scikit- learn, Matplotlib,TensorFlow, Pytorch, NLTK, Linux, GitHub,Postman,SpringBoot,Mysql Workbench

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## WORK EXPERIENCE

### STL - Sterlite Technologies-Graduate Engineering Trainee

July 2022 – March 2023

- Designed and developed a Library management System using Spring boot , MySQL & Angular.
- Deployed 4 microservices for User,Staff,Book & Details,with secure JWT authentication.
- Innovated and designed a user-friendly frontend interface using Angular & Angular material framework.
- Wireframed & implemented pages for User :Login/Signup,Logout,Books,Cart. For Staff :Login/Signup,Logout,Userslist,Bookslist,Bookstatuslist
- Improved the functionality by adding search button to get books by title/id
- Deployed on local system using jenkins pipeline for each microservice

### Intern, Programmer analyst Trainee – Cognizant – Chennai,INDIA (Remote)

Jan 2022 – June 2022

- Internship focused on Python data visualization, data cleaning, and training/testing for a training project.
- Applied skills in data analysis, contributing to effective project outcomes.

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## PROJECTS

### Library Management System

- I developed a comprehensive Library Management System with Spring Boot, MySQL, and Angular, deploying four secure microservices for User, Staff, Book, and Details, incorporating JWT authentication.
- The user-friendly Angular frontend includes pages for User and Staff operations, and I enhanced functionality with a search feature. Deployment utilized Jenkins pipelines for each microservice on the local system.

### Innovative Recipe Retrieval System

- The project introduces a Recipe Retrieval system using tokenization, BM25, and TF IDF algorithms to enhance personalized recipe recommendations.
- By breaking down user input ingredients and analyzing word relevance and importance, the system provides accurate and context-aware recipe rankings.
- The impact lies in offering cooking enthusiasts a tailored and efficient culinary experience.

### US Regional Sales Data Analysis

- I conducted a comprehensive analysis of US Regional Sales data, applying Python, machine learning models (Linear Regression, Random Forest), and EDA techniques to forecast unit prices.
- Achieved impactful results, improving decision-making insights for businesses. Implemented data preprocessing, feature engineering, and model evaluation, showcasing expertise in analytics and contributing to data-driven decision-making strategies.

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## RESEARCH

- Researched and Collected data from Google Scholar for Publication Automation System and published paper in National Conference on Computational Intelligence and Communication Networks