

# Sai Durga Shashidhar Pothukuchi

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## Education

**Master of Science in Computer Science** | University of South Florida

*August 2022 – Present*

C.G.P.A – 4

- Related Coursework: Deep Learning, Introduction to AI, Cloud Computing, Data Mining, Principles of Computer Architecture, Operating Systems, Introduction to Theory of Algorithms.

**Bachelor of Engineering in Computer Science** | Matrusri Engineering College, OU

*August 2016 - June 2020*

C.G.P.A – 3.79 (WES accredited)

## Work Experience

**Graduate Research Assistant** | University of South Florida

*December 2023 – Present*

- Developing the integration of a **BERT**-powered multilayered model to extract golden events from textbook data. This integration yield to a **40% improvement** in data accuracy, producing precise and insightful event prediction results
- Contributing expertise in preprocessing data, achieving PDF data integration , and feeding datasets to models for comprehensive event extraction.

**Full Stack Developer** | Cognizant – Chennai, India

*November 2020 – June 2022*

- Contributed to software development for a major **US-based pharmaceutical company**, resolved production defects and critical issues, **reducing 30%** of overall defects. Applied formal training and certification in software engineering concepts and accumulated 2 years of hands-on experience.
- Leveraged **Java 11, Spring Boot, and React** technologies to consistently deliver high-quality solutions across multiple projects demonstrating advanced skills in system design and application development within a cloud environment
- Successfully implemented **microservices** architecture, optimizing deployment with cloud technologies like **Azure** and **Kubernetes**, realizing a significant **15% operational efficiency** improvement for both web and enterprise applications in alignment with cloud standards.
- Experienced in applying modern Java features, conducting unit testing, and contributing to Azure CI/CD pipelines, resulting in a **20% increase** in robustness and scalability of software applications

**SDE Intern** | Cognizant – Hyderabad, India

*January 2020 – April 2022*

- Engaged in **C#, .NET, and SQL** for web development, successfully **executing 100%** coding challenges and contributing to dynamic internship project
- Applied hands-on practical experience in **system design**, application development, testing, and operational stability

**Intern** | ECIL

*June 2019 – July 2019*

- Successfully implemented a full-stack application, developing an online voting system using Aadhar as authentication. Engineered using **Java, JSP, MySQL, and Bootstrap**, deployed in AWS EC2. [Project Link](#)
- Collaborated on the implementation of cloud-native features, aligning with AWS cloud deployment standards.

## Technical Skills

**Languages:** Java, Python, C++, SQL, Nodejs, TypeScript

**Tools and Frameworks:** Spring Boot, Spring MVC, Angular, React, HTML, JavaScript, Hibernate, Maven, Gradle, Git

**Databases:** MySQL, MongoDB, Microsoft SQL Server

**Cloud Platforms:** Azure DevOps, AWS, Docker, Kubernetes, EKS , Jira

**IDE Tools:** Eclipse, Spring Tool Suite, SQL Developer, VSCode

**Design Methodologies:** Agile, Scrum, MVC Pattern

## Key Projects

**Robotic Simulation of Object Mixing using Deep Q Learning**

- Developed a Q learning and a **Deep Q learning agent**, significantly improving the efficiency of simulation of mixing objects in CoppeliaSim using **Python**

**Smart Grocery Management Application** | [Project Link](#)

- Spearheaded full-stack application development for streamlined grocery inventory management. Designed RESTful APIs and leveraged React to **2x user efficiency**. Led end-to-end project execution, including user surveys and comprehensive reporting.
- Technologies used – **MongoDB, NodeJS, React, Express, React-Bootstrap**

**Aspect-Based Sentiment Analysis Using Machine Learning** | [Project Link](#)

- Used scraped Amazon reviews to obtain aspect-based sentiment of products on Amazon website. Built a full-stack web application allowing input of a product and obtain its aspect-based analysis
- Technologies – **NLTK, Flask, NodeJS, React, Material-UI**

## Achievements/Responsibilities

- Certifications – NPTEL - Programming, Data Structures and Algorithms Using Python
- Social Media Head – Served for Matrusri Campus Connect at MECS