

# Sai Deepthi Jammula

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## EDUCATION

<b>Purdue University Northwest</b> Master of Science - Computer Science Focused Studies: Algorithms, Operation systems, Programming languages and interpreters, Artificial Intelligence, Deep Learning, Software Design.	<b>Hammond, IN</b> Jan 2023 – Dec 2024
<b>Malla Reddy College of Engineering and Technology</b> Bachelor of Technology in Electronics and Communication Engineering Coursework: Python, Data Structures, Database Systems, C, C++, Java	<b>Hyderabad, India</b> Jun 2017 – Jun 2021

## EXPERIENCE

<b>Systems Engineer</b> Tata Consultancy Services   Client: Ericsson	<b>Hyderabad, India</b> Jun 2021 – Dec 2022
<ul style="list-style-type: none"><li>Optimized orchestration of the Toscao microservice with Kubernetes, Docker, and Helm, enhancing deployment efficiency by 20% and improving stability by 15%.</li><li>Developed and executed over 1,000 test cases for Red Hat-based applications, improving system integrity and application performance.</li><li>Diagnosed and resolved over 20 critical issues, providing detailed reports and achieving a 95% issue resolution rate.</li><li>Collaborated with cross-functional teams to address and fix 15 defects, ensuring alignment with project milestones and delivery timelines.</li><li>Utilized JIRA and Jenkins to manage over 50 test cases and defects, streamlining the development and testing process.</li><li>Administered PostgreSQL, ensuring 100% data integrity and optimizing performance through regular updates and tuning.</li></ul>	
<b>Lab Assistant</b> Purdue University Northwest	<b>Hammond, IN</b> Aug 2023 – May 2024
<ul style="list-style-type: none"><li>Supported the development and delivery of 2 software engineering courses, contributing to a 20% increase in course effectiveness and student satisfaction.</li><li>Mentored over 25 students through lab sessions, resolving technical issues and supporting their development in software design projects.</li><li>Graded lab reports and provided feedback, enhancing students' understanding and improving performance scores by 15%.</li><li>Directed student teams in developing 2 web applications using HTML, Java, and C#, ensuring adherence to project requirements and deadlines.</li></ul>	

## PROJECTS

<b>Road Crack detection:</b>	<b>Jan 2023 – May 2023</b>
<ul style="list-style-type: none"><li>Designed a detection model using VGG16, RPN, and ROI pooling, achieving 90% accuracy in identifying road cracks.</li><li>Compiled and processed over 1,000 road images for dataset creation and utilized Google Colab for efficient model training, reducing training time by 50%.</li></ul>	
<b>Efficient Path Finding and Visualization:</b>	<b>Aug 2023 – Dec 2023</b>
<ul style="list-style-type: none"><li>Implemented Prim's MST and Dijkstra's shortest path algorithms to optimize US city map navigation, decreasing processing time by 25%.</li><li>Visualized algorithms using a comprehensive GUI, which significantly enhanced data accessibility and clarity, resulting in a 30% improvement in actionable insights.</li></ul>	
<b>Neo4j CRUD Rest API:</b>	<b>Jan 2023 – May 2023</b>
<ul style="list-style-type: none"><li>Created 4 CRUD APIs using Node.js and Express.js for managing student data in a Neo4j graph database.</li><li>Conducted 8 automated Postman tests with a 100% pass rate.</li></ul>	

## TECHNICAL SKILLS

Languages: Python, Java, C++, C, C#  
Software Development: Algorithms, Data Structures, Software Design, Debugging  
Tools & Technologies: Git, Jenkins, Docker, Kubernetes, JIRA, Google Colab, GitHub, Bitbucket, AWS  
Web Technologies & Frameworks: HTML, CSS, React, Node.js, JavaScript, Angular, Junit, pytest  
Database: PostgreSQL, MySQL, Neo4j, MongoDB  
Software & IDEs: VS Code, Eclipse IDE, TensorFlow

## ACHIEVEMENTS

- On the Spot Award**, March 2021: Recognized for improving system efficiency by 20% and resolving critical issues.
- Star of the Month**, June 2022: Honored for increasing project delivery speed by 30% and achieving a 95% client satisfaction rate.