

SHREYAMSHA DEBBATA

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PROFESSIONAL SUMMARY

Experienced in a fast-paced software development environment, with honed technical and problem-solving skills. Expertise in Java programming, front-end and back-end integration. Valuable experience in collaborative project management. Eager to leverage transferable skills to drive innovation and efficiency in a new field.

EDUCATION

Masters in Computer and information Science, SUNY Polytechnic Institute, Utica, NY 2024
GPA: 3.45/4.00

Relevant Coursework: Web Development, Software Engineering, Core Java, Artificial Intelligence, and Machine learning

Bachelors in Mechanical Engineering, B V Raju Institute of Technology 2018 - 2022

SKILLS

Programming & Markup Languages	Java, HTML, CSS, JavaScript, Python, R, C,C++
Frameworks	BootStrap, SpringBoot, Angular
DataBases	MySQL, SQL, PostgreSQL, MongoDB, DynamoDB
Technologies & Tools	Excel, Jupyter, Selenium, Jira, Tableau, UAT, Agile
ML Libraries	NumPy, Pandas, Keras, SciPy, Matplotlib
Soft Skills	Team Collaboration, Analytical Thinking, Content Writing , Problem Solving

EXPERIENCE

Program Analyst Mar 2022 - Jan 2022
Cognizant Technology Solutions Corporation *Hyderabad, India*

- Applied Quality Engineer skills with Selenium and Java, focusing on automated testing.
- Successfully handled dropdown menus in Selenium automation, demonstrating proficiency in UI testing.
- Contributed to a Hackathon project titled Find Travel Insurance for Students by leveraging Maven concepts, showcasing problem-solving and collaborative skills.
- Led the development of a significant project, Cognizant World Clock, highlighting project management capabilities and comprehensive software development involvement.
- Collaborated with a team using Agile methodology and JIRA for project tracking.

PROJECTS

Edge-Lab Assistant-AI Powered Real-Time Information Retrieval System - Capstone Project

Role: Machine Learning & Software Development Intern

- Developed an edge-computing-based AI assistant for laboratory environments using **Raspberry Pi 4B**, **YOLO v7 Tiny**, and **NLP** to enable real-time **laboratory equipment recognition** and interactive information retrieval. Implemented computer vision algorithms with template matching for accurate object detection and integrated a conversational AI chatbot using the Gemini API for contextual responses.
- Designed a user-friendly GUI in Python (Tkinter), ensuring seamless interaction. Optimized edge computing for low-latency, privacy-preserving operations, enhancing efficiency and accessibility in laboratory environments.

AI in Healthcare - Research Project

- Implemented AI in Healthcare using Python 3.7 with Jupyter Notebook, Scikit-Learn, Keras, TensorFlow, Matplotlib, Pandas, and Seaborn.
- Collected diverse datasets with different attributes to predict the likelihood of a patient experiencing a heart attack.
- Employed neural network and logistic regression models to achieve accurate predictions based on input data.

Opinion Mining: ChatGPT on Software Engineering - Research Project

- Conducted sentiment analysis on tweets from users with experience using ChatGPT for software engineering problems.
- Analyzed user feedback to enhance software engineering problem-solving capabilities of ChatGPT.
- Contributed to improving the usability and effectiveness of ChatGPT in software-related contexts.

Memory Leak Detection Tools - Project DIOTA - Research Project

- Conducted research in the field of memory leak detection tools, focusing on effective detection and resolution.
- Developed the innovative memory leak detection solution named DIOTA.
- Contributed to advancements in identifying and resolving memory-related issues in software systems.

Secure Network Services Deployment in CORE Environment - Research Project

- Designed and deployed secure network services within the CORE environment, configuring HTTP/HTTPS, FTP/SFTP, SSH, SMTP(s), and IMAP(s) with self-signed encryption. Built a real-world network topology, integrating wired and wireless devices, routers, switches, and firewalls. Implemented firewall and NAT configurations to manage external service access. Successfully documented the deployment process and conducted a live demonstration of the functional network services.