JAHNAVI REDDY BHEEMAVARAPU

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EDUCATION

Master of Science (MS), Computer Science (**GPA: 3.55/4.00**)   **Aug 2023 – Dec 2024**
University of Florida, Gainesville, Florida, USA.

CISE Senior Certification, Computer Science (**GPA: 3.64/4.00**)   **Jan 2023 – May 2023**
University of Florida, Gainesville, Florida, USA.

Bachelor of Technology (B. Tech), Computer Science (GPA: 3.71/4.00)   **Jul 2019 - Jun 2023**
Manipal University, Jaipur, India.

SKILLS

Primary: Python, SQL, Git, HTML, CSS, JavaScript, Java, OOP, DevOps, Software Design, Machine Learning, C, C++, and Debugging.
Software: React, Angular, Oracle DB, Spring Boot, NoSQL, Node.js, Scalability, Software Testing, Go, MongoDB, and Kubernetes.
Tools: VSCode, Dataiku, GitHub, Oracle SQL Developer, Docker, Flask, AWS, Cypress, Postman, Heroku, and Microsoft Suite.
Soft Skills: Problem Solving, Leadership, Communication, Flexibility, Adaptability, Time Management and Analytical Thinking.
Coursework: Analysis of Algorithms, Distributed Systems, Operating Systems, Database Management Systems, Data Structures, Software Engineering, Machine Learning, Computer Networks, Engineering Mathematics and UNIX Programming Laboratory.

EXPERIENCE

Full Stack Developer Intern at *Foxmula* (Bangalore, India)   **Jun 2022- Dec 2022**
- Enhanced InspiroCMS's backend by optimizing APIs and integrating Elasticsearch, reducing content retrieval time by 40%, ensuring faster search results and improved user experience.
- Developed dynamic content creation tools and a mobile-responsive UI, increasing author productivity by 25% and significantly improving user engagement across all devices.
- The Led Dockerization of InspiroCMS's full-stack application and implemented a CI/CD pipeline**,** reducing deployment time by 50% and ensuring smooth, automated releases.

Data Analytics Intern at *Globalshala* (Hyderabad, India)   **Jun 2021 - Aug2021**
- Performed exploratory data analysis to identify trends, patterns, and anomalies, contributing to improved decision-making processes.
- Utilized programming languages such as Python to develop scripts for data preprocessing and analysis.
- Created visually compelling dashboards and reports using Tableau, effectively communicating complex findings to non-technical stakeholders and supporting data-driven decision-making.

PROJECTS

Kubernetes Cluster Optimization Project with Feedback-based Control
- Implemented feedback-based controllers using a PID algorithm (Python) for dynamic adjustment of nodes and pods in Kubernetes.
- Developed workload prediction models based on CPU utilization metrics, employing Python for modeling and analysis.
- Attained 85 percent utilization, showcasing the effectiveness of the PID controllers and the utilization of various technologies in the project.

MERN Stack E-commerce Website
- Built a full-stack e-commerce web application utilizing the MERN stack to enable product browsing and purchasing.
- Implemented user authentication and authorization using JWT for secure login and account management. Utilized **MongoDB** for database storage and **Express** to create RESTful APIs and created responsive front-end using React.
- Managed server-side logic with **Node.js** to handle API requests and data transactions.

Smart Select: Elevating E-commerce Choices with Personalized Recommendations
- Engineered an E-commerce Sentiment Analysis System with NLP and collaborative filtering.
- Developed a dynamic Tableau dashboard, driving a 20% increase in customer engagement and sales. Showcased expertise in natural language processing and machine learning for impactful, data-driven decision-making.

CERTIFICATIONS

- Microsoft Azure Fundamentals
- Achieved Elite certificate in Programing Data Structures and Algorithms using Python from IIT-Madras NPTEL.