Nischal Vangipuram

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EXPERIENCE

FoodSupply-AI| Software Developer | *May 2023 – Nov 2024 | California, USA*
 • Implemented full-stack application within an agile framework to streamline food supply chain operations, improving order and inventory management.
• Designed and optimized MySQL database schemas and queries, streamlining operations and cutting system latency by 32%.
• Optimized Redux state management and implemented functionalities using Next.js, enhancing performance by 20%.
• Deployed AWS services (RDS, EC2) to deliver secure, scalable software solutions with improved system uptime.
• Developed and optimized efficient data migration scripts, ensuring accurate and seamless data transfer across systems.
• Designed Figma screens adhering to the latest design principles, ensuring intuitive and enhanced user experience.
Technical Skills: Java, Next Js, React Js, Node Js, AWS, Prisma, Tailwind, MySQL.

Zemoso Technologies | Software Developer | *June 2021-July 2022 | India*
• Optimized a web application for an oil and gas firm, enhancing asset monitoring and control, leading to improved operational efficiency.
• Developed a responsive web application using Angular & NgRx enhancing state management, scalability, and performance.
• Implemented dynamic data visualizations, seamless API calls, and unit tests, improving system efficiency by 15%.
• Developed a full-stack application with React and Spring, to enhance my skillset and deliver real-world solutions.
Technical Skills: Angular, Spring, React Js, Node Js, Material UI, Karma, Jasmine, Typescript, D3 Js, Plotly Js.

TECHNICAL SKILLS

Languages: Java, C, C++, Python, Javascript, Typescript, Html, Css.
Machine Learning Frameworks: Pandas, Numpy, TensorFlow, Scikit-learn, Matplotlib.
Web Development: Angular, React, Next.js, Node Js, Redux, NgRx, RxJs, Spring, Spring Boot, Bootstrap, Material-UI, Tailwind, RESTful Api, Jasmine, Karma, D3.js, MySql, Sql, Sonar Cloud.
Dev Tools: Visual Studio Code, Docker, Postman, Git, Gitlab, IntelliJ, Jupyter, Spyder, Storybook for UI, Google Colab, Jira.

PROJECTS

Analysis of Hydrometeor Classification | *Tech Stack: Python, MySql.*
• Spearheaded data cleaning on SnowflakeID's crowdsourced dataset, trained a CNN model, and benchmarked its accuracy against the MASCDB dataset.

Analysing Homomorphic Encryption Libraries and Use Cases | *Tech Stack: Java, Python, C++*
• Analysed the performance of homomorphic encryption libraries using memory and execution time as key metrics.
• Developed and analyzed three machine learning use cases to determine the most efficient encryption technique.

Detection of Dos Attacks | *Machine Learning, Neural Networks, Tkinter, Python, Numpy.*
• Implemented various machine learning models to detect malicious network requests and reduce the security risk.

EDUCATION

University of Utah | *Master of Science in Computer Science | Aug 2022 – May 2024*

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD | *Bachelor of Technology in Computer Science and Engineering | 2017-2021*

RELEVANT COURSEWORK

Graduate: Graduate Algorithms, Operating Systems, Machine Learning, Network Security, Managing Data with ML.
Undergraduate: Design and Analysis of Algorithms, Data Structures, Object-Oriented Programming, Operating Systems, Relational Database Management Systems, Software Engineering, Web Technologies.