DESIREDDY SAI SANKEERTHANA

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EDUCATION

Master of Computer Science Feb 2024
University at Buffalo, State University at New York
Relevant Coursework: Analysis of Algorithm, Data Modelling and query language, Intro to Machine learning, Networking Concepts, Deep Learning,Computing Architecture, Computational Linguistics and Blockchain.

Bachelor of Technology in Information Technology July 2021
CVR College of Engineering, India.
Relevant Coursework: Data Structures, Algorithms, Python, Networking, Operating Systems, Cloud Computing, Software Engineering, Java, OOPS, Linux,HTML,CSS,Web Technologines

SKILLS

Languages	C,Java,Python,JavaScript,HTML,CSS,SQL,COBOL,JCL, VSAM,Solidity,PHP,Powerbi Tableau,powershell,bash,Junit
Web Technologies	HTML, CSS, React.js, Node.js, Angular,Flask
Frameworks/Tools	Windows, Visual Studio, GitHub,PyCharm, AWS, Selenium,Cypress,bitbucket,Intellij,Jupyter,. Postman,docker,kubernetes,jenkins,Prometheus,Grafana,terraform,JIRA,terraform,ansible bitbucket,Gitlab,Github,Bamboo,Intellij.
Databases	Mysql,MongoDB
Cloud	Heroku,Aws,Azure Services

EXPERIENCE

Legato Aug 2020 - Aug 2022
Full Stack Software Engineer *Hyderabad, India*

- Developed and maintained Java applications, utilizing object-oriented design principles to ensure code modularity and reusability
- Spearheaded the implementation of CI/CD pipelines using GitHub Actions, ensuring seamless integration and deployment of code changes across multiple environments within Azure Cloud infrastructure.
- Designed and developed web pages using HTML5, DHTML, XHTML, CSS3, Ajax, JSP and JQuery based on the W3C standards and Web 2.0.
- Utilized Kubernetes and Terraform to implement Infrastructure as Code principles, enabling consistent provisioning and scaling of containerized applications within Azure Kubernetes Service (AKS) environment.
- Implemented database schemas and performed CRUD operations on PostgreSQL.
- Created User-Interface through HTML, and JavaScript. Developed and designed the various screens and its architecture in accordance with UI Specifications.
- Designed and implemented RESTful APIs to support front-end functionality and improve system scalability.
- Achieved role control functionality mainly by retrieving JSON data from AJAX and combining the retrieved data with jQuery to manipulate nodes in the DOM tree.
- Orchestrated automated workflows for Python projects using GitHub Actions, defining custom CI/CD pipelines directly within the GitHub repository
- Performed unit testing with Jest and Enzyme to maintain code quality and reliability.
- Well-versed in documenting designs, API specs, and technical protocols to ensure clarity and maintainability.
- Collaborated with UX/UI designers to translate wireframes and mockups into high-quality code.

- Developed PowerShell scripts to automate routine system administration tasks such as user management, file system operations, and configuration management on Windows servers and workstations.
- Implemented end-to-end testing with Cypress to validate application flows and user interactions.
- Developed Bash shell scripts to automate system administration tasks, file management, process monitoring, and application deployment on Unix/Linux-based servers and devices.
- Proficient in building scalable backend functionality and API integrations using Node.js.

PROJECTS

DETECTION OF PHISHING WEBSITES USING WEB EXTENSION: The core idea of this project is to detect those phishing websites by analyzing the characteristics of URL (Uniform Resource Locator) using Machine Learning Algorithms. We analyze various features of the URL like presence of '@' symbol, presence of Redirection (//) Symbol, Length of URL, Subdomains present in the URL which are relevant to the system and help in performing prediction on a new URL. All these extracted features are then trained into a best suited machine learning algorithm. These features play a major role in classifying a URL whether a safe one or malicious.

ERC 721 Car Resale Value NFT project: Developed an NFT project for car resale value using ERC721 standard, enabling creation, buying, and selling of car NFTs with essential details. Implemented secure smart contracts and user-friendly web-based dApp.

Data intensive computing for Sales Prediction Project: The project aims in developing predictive sales models that help retailers optimize their profits. By analyzing historical sales data and incorporating various factors such as geographical location, product type, and outlet size, I have successfully created accurate models that forecast sales trends. My expertise lies in data preprocessing, feature selection, and training machine learning algorithms to provide valuable insights to retail businesses. I am skilled in interpreting model predictions, presenting findings through visualizations and reports, and continuously improving models with new data. With my solutions, retailers can make informed decisions, reduce losses from unsold items, and maximize their profits by focusing on high-demand products tailored to their specific markets. .

Audio signal Denoising: The project aimed to enhance audio quality by effectively removing background noise from recorded audio signal by implementing methodologies like wavelet transforms,LongShortTermMemory,Conventiona have optimized the algorithms for real time applications. The resulting solution improved signal-to-noise ratios, preserving essential audio quality with 85such as waveform and spectrogram visualization, signal-to-noise plots, error-loss curves.

ACHIEVEMENTS AND ACTIVITIES

Certification in Microsoft Excel.

Certification in Modern PHP web development/MYSQL,Github and Heroku.

Certified Kubernetes Administrator.

Certified AWS developer Associate

Certified Microsoft Azure Administrator.

Certification in PowerBi Tableau.

Participated in Entrepreneurship workshop.

Participated in Python for Data Science workshop.

Actively participated in various sports.