

SRI HARSHA SWARAJ NADENDLA

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EDUCATION

Masters of Science, Computer Science

University of North Texas, TX.

Aug 2021-May 2023

GPA: 3.9

Relevant Coursework: Analysis of Algorithms, Natural Language Processing, Big Data and Data Science, Graph Theory, Information Retrieval and Web Search, Machine Learning, Secure e-Commerce, Data Modelling.

Bachelor of Technology, Computer Science

SASTRA University, India

Jul 2017 - Jul 2021

GPA: 3.1

Relevant Coursework: Fundamentals of Databases, Computer Networks, Operating Systems, Computer Architecture, Software Engineering.

TECHNICAL SKILLS

Programming Languages

C, C++, Python, Java, HTML5, CSS3, Javascript, Typescript

Web Technologies and Frameworks

Angular, React, Node.js, ExpressJS, Django, Spring Boot, jQuery,

Databases

MySQL, PostgreSQL, Snowflake, MongoDB

Additional Technologies

Git, Maven, Gradle, Docker, Jenkins, Apache Airflow, JIRA, Bitbucket, Confluence

Functional Skills

Web Development, SDLC, Agile Methodology, CI/CD, Linux scripting

Cloud Technologies

AWS (EC2, S3, MWAA, SNS, Secrets Manager, IAM), Azure

Orchestration and Streaming Tools

Apache Airflow, PySpark

EXPERIENCE

Python Developer

Anblicks

Mar 2023 - Present

Dallas, USA

- Transformed data processing by building an ELT pipeline using Airflow for orchestration. Extracted data from S3 buckets, applied advanced techniques for integration, cleansing, and enrichment, and loaded it into Snowflake tables. Achieved optimized performance, scalability, and data reliability through parallel processing and robust monitoring. Also responsible for query writing and query optimization.
- Migrated files from AWS S3 buckets to Snowflake, ensuring efficient and secure data transfer.
- Utilized various AWS services including SNS, S3, Secrets Manager, IAM, MWAA, and EC2 to facilitate data integration and management processes. Hosted Airflow on EC2 instances using Linux commands and scripting, providing a reliable and scalable infrastructure for workflow execution.
- Orchestrated the end-to-end ELT pipeline workflow using Apache Airflow, optimizing data processing and scheduling. Implemented parallel DAGs in Airflow, enhancing pipeline performance by 300% and maximizing resource utilization. Responsible for creating lineage and decoupling tightly coupled tasks.
- Developed stored procedures in SQL to manipulate and transform data within Snowflake, improving data processing capabilities. Configured roles and users on the Snowflake platform, ensuring proper access control and data security. Implemented external tables to store and manage historical data in the Bronze zone, enabling efficient data retrieval and analysis. Leveraged Snowflake tasks to automate periodic pipeline refreshes, ensuring data consistency and timeliness.

Software Development Engineer Intern

Hewlett Packard

Feb 2021 - Aug 2021

Bengaluru, India

- Front End Engineer specializing in performance optimization and quality assurance for HP's internal systems and websites such as ETR and USM. Assisted senior software engineers in troubleshooting code and documentation. Aided in the development of low-level design documentation to guarantee thorough technical coverage.
- Responsible for designing and implementing efficient front-end solutions to enhance website performance and user experience. Conducted thorough performance testing by simulating a traffic load of 2 million concurrent users to identify and resolve performance bottlenecks. Analyzed test results and implemented optimizations, resulting in a significant 5% improvement in overall website performance.
- Collaborated closely with cross-functional teams to ensure seamless integration of front-end components and deliver high-quality software solutions. Utilized CI/CD practices to seamlessly migrate data from SQL Server to AWS, ensuring efficient and automated data transfer processes.

- **Car Rental Mobile Application** Developed a responsive Car Rental mobile application using React Native, showcasing proficiency in mobile app development and cross-platform compatibility. Collaborated with the Frontend team to design and implement user interfaces, ensuring a seamless and visually appealing user experience. Contributed to the application’s responsiveness, enabling smooth interaction across various devices and screen sizes. Utilized modern front-end technologies, including HTML, CSS, and JavaScript, to create intuitive and dynamic UI elements. Conducted rigorous testing and debugging, identifying and resolving issues promptly to maintain application performance and reliability.
- **Full Stack Java E-commerce Application** Designed and developed a scalable web platform using Java technologies, catering to the needs of E-Commerce businesses. Implemented product listings and search functionalities, enabling customers to easily find and explore products. Integrated secure payment processing systems, ensuring safe and encrypted transactions for online purchases. Developed user authentication and authorization features to protect sensitive user data and manage user access levels. Created a seamless shopping cart and checkout process, enhancing user experience and driving customer satisfaction. Collaborated with cross-functional teams to optimize inventory management and order processing workflows for merchants.
- Integrated JavaServer Faces (JSF) and React for frontend UI, providing an intuitive and responsive user interface. Implemented MongoDB for efficient and scalable product data storage and retrieval. Utilized Spring Security and JSON Web Tokens (JWT) for robust user authentication and secure API endpoints. Deployed the application on Apache Tomcat and AWS Elastic Beanstalk for high availability and scalability.

- Worked as a vital team member in the MIT Graph Challenge, focusing on community detection in large-scale network graphs. Utilized C++ and Graphviz technologies to develop innovative solutions for analyzing complex graph structures. Successfully implemented algorithms and data structures in C++ to achieve efficient graph processing, delivering actionable insights for community detection. Collaborated closely with fellow researchers and utilized Graphviz to visualize and communicate the results effectively.
- Challenges : Implementing Bridges and Articulation points for graphs with billions of nodes. Implementing parallel programming for the sequential graph algorithms.

- Teaching assistant for the graduate course Natural Language Processing during Fall 2022 semester. Duties include creating weekly assignments, grading the students assignments and exams for a total of 90 students.

PROJECTS

Amazonon Designed and developed a scalable web platform using Java technologies, implemented product listings and search functionalities, enabling customers to easily find and explore products. Integrated secure payment processing systems, ensuring safe and encrypted transactions for online purchases. **Technologies used:** Java, Javascript, MySQL, PostgreSQL, MongoDB, Spring Boot, React, Angular, Vue.js

Atlassian Clone Developed a full stack Atlassian **ticketing system application**, similar to Atlassian.com. With JIRA board, Confluence page and Bitbucket integration in Angular. **Technologies used:** Angular JS, HTML,CSS.

Full stack E-commerce Application Developed a full stack web application, similar to Myntra.com. Checkout, Discount codes, Refund processing, Payment gateway, order summary and a responsive and eye appealing UI. **Technologies used:** Python, Java script, Django, HTML,CSS.

Dynamic FAQ Pages along with Chatbot using NLP Built a responsive FAQ web page that uses NLP Question Answering. Given a set corpus about the organization, any question asked by the user will be dynamically answered as a result. The same feature is also integrated into a chatbot on the same page.**Technologies used:** Java, Python

Covid-19 detection using Transfer Learning Developed a Transfer Learning based model using the state of art CNNs and X-ray data set. Major focus was on the accuracy on covid positive detection just using the x-ray of the patient. Achieved an accuracy of 94%.
Technologies used: Python3, Machine Learning, CNN, Transfer Learning