SREE CHAND NADELLA

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Summary

Technical Experience: Over 1 year of hands-on experience in software engineering, specializing in the development of SaaS applications (web and mobile), e-commerce platforms, and data engineering solutions. Demonstrated proficiency in machine learning and AI applications within cloud-based environments (AWS), with a focus on driving business innovation and enhancing functionality through a customer-centric approach.

Academic Excellence: Holder of both a Bachelor's and Master's degree in Computer Science, with a strong track record in research. Authored three research publications and have one patent pending, reflecting a commitment to advancing the field through innovative contributions

Cloud and Data Expertise: Extensive knowledge of AWS with practical experience in integrating data management, data science, AI, and machine learning into robust cloud solutions. Proficient in DevSecOps and CI/CD practices, ensuring efficient and secure deployment of applications.

Skills

Languages: Python, Java, C, MATLAB, R, PHP, SQL, HTML, CSS, JavaScript, Erlang, Verilog

Technologies and Frameworks: PyTorch, TensorFlow, Figma, Rest-API, AWS, Git, IDE's, VMware, AutoCAD, Cisco Packet Tracer, Word, Excel, PowerPoint, GAN, VAE, Docker, PowerBI, Postman, Kubernetes

Courses: DBMS, OOPs, Blockchain, Cryptography, AI, Software Engineering, ML, Deep Learning, Analysis of Algorithms, Mathematics for Intelligent Systems, Distributed Operating Systems and Principles, Cyber-Physical Security Systems, Computer Networks, Advance Data Structures, Advanced Data Analytics, Reinforcement Learning, Computer Vision, NLP, Data Warehousing and Data Mining, Statistical Analysis and Modeling

Core Competencies: Machine Learning, Deep Learning, Computer Science, Statistics, Algorithms, Data Manipulation

Work Experience

Tandem Arc
Seattle, WA
Jr. Software Developer
May 2024 - Present
- Enhanced Apache Airflow with enterprise-grade features to boost developer productivity and improve operational efficiency by providing a resilient suite of tools, facilitating expedited pipeline deployment.
- Utilized technologies such as React.js, Apache Airflow, pgSQL, and Python to develop feature-rich solutions for data processing.

NodeTek Inc
Gainesville, FL
Jr. Software Developer
Jan 2024 - May 2024
- Implemented scalable CI/CD pipelines to reduce deployment time and minimize downtime using Jenkins, Docker, and Kubernetes.
- Automated infrastructure provisioning across AWS and GCP using Terraform and Ansible.
- Enhanced team collaboration processes by optimizing Git branching workflows.
- Worked with tools like Jenkins, Docker, Kubernetes, AWS, GCP, Terraform, Ansible, and Git.

University of Florida
Gainesville, FL
Operations Associate
Apr 2023 - Jan 2024
- Managed and maintained internal software applications for the RecSports department, ensuring smooth operation and accessibility for both staff and patrons.
- Provided technical support for program registration, facility management, and other operational software, while troubleshooting and resolving issues promptly to minimize downtime and maintain optimal functionality.

UF Innovate
Gainesville, FL
Machine Learning Engineer
Oct 2023 - Oct 2023
- Developed and deployed a computer vision tool that significantly improved the accuracy of zoning parcel detection, achieving a 90% boost in efficiency compared to manual processes.
- Worked closely with cross-functional teams to seamlessly integrate the tool with AutoCAD.

Shiash Info Solutions
India
Software Developer Intern
Jan 2022 - Jun 2022
- Developed an application to help customers in buying or selling products.
- Online auction applications make the process reliable, fast, and efficient.
- Merchants can sell products, customers can buy products, Auctioneer conducts auctions, and admin manages auctioners through this E-auction application.
- Technologies used - HTML, CSS, JavaScript, Python, MySQL, Frameworks used - Bootstrap, Django

Education

University of Florida (UF)
Master of Science, Computer Science   Aug 2022 - May 2024
Vellore Institute Of Technology, Andhra Pradesh
Bachelor of Technology, Computer Science and Engineering (with specialization in Data Analytics)   Jan 2018 - Jul 2022

Projects

Smart Parking Management System
- Developed software to computerize the traditional way of booking parking slots. The attendant manages all the requests made by customers for slot booking. Admin manages all the Attendees.

Real Time Object Detector
- The work focuses on the task of detecting and identifying the objects, given an RGB representation of the image using an object detection framework. Since it is also important that the robot should process and act in real-time, this work extends by constructing an Android-based live application in which the framework runs on.

IoT sensors, devices and hardware-based projects
- Automatic water level detector Using Arduino
- Door Automation Using Raspberry pi
- Rough Terrain Climber Bot using microcontroller-based circuit where i was the project lead and we achieved the highest grade.

More projects | *Road Accident Analysis in India! , Twitter clone Using Erlang and WebSocket API*

PATENTS AND PUBLICATIONS

Publication 3 and Patents 1 |published 1, under review (1 patent, 1 paper)
- ○ ” Visualization and Prediction of Covid-19 data using Random Forest Regression”-employs AI to resolve challenges created by data clutter to assist researchers and medical professionals.
- ○ ” DIVS: A Real-Time Video Stabilization Framework for Consumer Camera”- a cutting-edge framework designed to provide real-time video stabilization solutions for consumer-grade cameras, ensuring smooth and jitter-free footage
- ○ ” Patent: Virtual Reality Kinetic Mapping: AI-Powered Realistic Physical Interaction in VR”-an AI-driven VR algorithm that seamlessly translates real-world physical movements into immersive virtual interactions
- ○ ”AI-Enhanced Gastric Cancer Early Detection: Leveraging LSTM and Google Net for Histopathological Image Analysis”- develop a robust AI system for early-stage gastric cancer detection through the analysis of histopathological images, enhancing diagnostic accuracy and patient outcomes.

CERTIFICATIONS & ACHIEVEMENTS

Certifications & Achievements: Certificate in machine learning using Python from IBM, Certified by NASSCOM in Associate Analytics (SSC/Q2101) , Across the years won 6 gold, 3 silver,1 bronze medal,1 shield, and 73 certificates in Competitions, Science Olympiads, and Sports, Was the Class Representative from 2008 to 2022 for more than 15 years.
Positions of Responsibility: ”Treasurer” Indian Graduate Student Association-UF (Mar 2023 - May 2024),
VP to Chair to Advisor at (Association for Computing Machinery) ACM Student Chapter VIT-AP (Oct 2020-Jan 2022) [wherein I worked with 55 delegates from across the country under my stewardship, we rose from low ranks to position 1. It has around 300 members now. In recognition of my leadership, I have now been appointed as the Advisor of the National Service Scheme, ACM, and Block-Chain Clubs]
Core Member Null Chapter, Bulls and Bears, Toast Masters, WAY, D-Help (June 2019- Jan 2022) [At WAY, during COVID we had created an app with my friends, utilizing local community support to collect data related to the availability of beds, oxygen cylinders, and other resources, which aided more than 2000 patients and their families.]