Gangili Sai Charan

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GitHub://cha19 | https://cha19.github.io/portfolio/ |

Summary

Pursuing a Master's in Data science with 2 years of software development and data analysis. Worked on B2B Security exploiting application development and Data resource allocation. Proficient in Python, Java R, SQL, Power BI, Excel, and Tableau. Skilled in Data Extraction and Data Visualization. Strong academic background in Python, no-SQL, statistics and social network analysis. Holds Certifications in Python, and SQL.

Education

Illinois Institute of Technology, Chicago, IL	12/2025 – 08/2023
• **Master of Science (Data Science, (Fall 2023))**	
MLR Institute of Technology (MLRIT), Hyderabad.	05/2020 – 08/2016
• **Bachelor of Technology in Electronics and Communication Engineering, GPA 3.2**	

Work Experience

CognitivZen Technologies

Associate Software Engineer	07/2021 - 07/2023

- Orchestrated Azure-based projects using Agile methodologies and Azure DevOps for CI/CD implementation, leveraging expertise in Python, while ensuring robust version control with Git.
- Spearheaded full-stack development, utilizing Flask, Django, and FastAPI frameworks to build RESTful APIs and deploying on Azure, managing databases including PostgreSQL, MySQL, MongoDB, and Redis, with a keen focus on optimizing data structures and algorithms for efficient performance.
- Applied machine learning proficiency in Python (NumPy, Pandas, TensorFlow, Sci-kit Learn) for data analysis, leveraging tools like Matplotlib, OpenCV, and Faker, while deploying applications via Docker and ensuring security compliance with OWASP ZAP and Splunk.

Technical Skills

Platform: Azure Devops, Azure.
Languages and Concepts: Python, Java, C, Object Oriented Programming (OOPS), Functional Programming, Singleton, Decorator.
DevOps: CI/CD, GIT, Linux, Agile Methodologies, Scrum, Jira, Shell.
Cloud and Web Technologies: RESTful API, HTML, CSS, JavaScript.
Databases and Big Data: PostgreSQL, MySQL, MongoDB, Redis, Kafka.
Software Development: Data Structures, Algorithms.
Lib/Frameworks and IDE's: Flask, Django, FastAPI, VTAF2, VS Code, PyCharm, Jupyter Notebook.
Python Modules and Machine Learning: NumPy, Pandas, Matplotlib, OpenCV, Alembic, Faker, seaborn, Sci-kit Learn, TenserFlow.
Tools: Docker, OWASP ZAP, Splunk.

Projects

Deep Neural Network with Residual Connections for Image Classification **11/2023 – 12/2023**
- Collaborated to develop a custom, high-performance model integrating skip connections and depth scaling to address vanishing gradient challenges in deep neural networks. Built a novel architecture reducing computational time, showcased via ResNet50, VGG19, and a custom model on butterfly and emotion recognition datasets.
- Demonstrated initiative by spearheading data analysis, coordinating model training, and computing superior metrics, analyzed computational complexities. Attained significant performance gains, communicating model's success in mitigating gradient issues through teamwork and collaboration.
  Tech Stack: Python, NumPy, Pandas, TensorFlow, Sci-kit learn Matplotlib, Math, OS, Git.

MD.Xplatform.Kaptaan Mac Cloud Inventory – Microsoft **01/2022 – 03/2023**
- Collaborated on Kaptaan inventory system's orchestration, synthesizing commander agents with auto-generated tokens for registration and API-driven monitoring, while also enabling intricate commands for agent execution.
- Facilitated precise communication through Azure Service Bus via Lieutenant, developed Role-Based Authentication (RBAC) for user access control, organized and optimized code for seamless data storage and retrieval from non-SQL databases, enhancing data management.
  Tech Stack: Python, NumPy, Postgres SQL, Alembic, FastAPI, Docker, Git, Azure DevOps.

WAS (Web attack Simulator) – Virsec **07/2021 – 10/2022**
- Analyzed URL's data and generating detailed reports for security applications CVSS-rated vulnerability assessments.
- Reduced CI app complexity by 40% through proactive teamwork and effective communication, showcasing initiative.
  Tech Stack: Python, NumPy, Flask, Redis, MongoDB, Docker, Git, OWASP ZAP.

Awards and Achievements

- Published journal paper on "Implementation of home security system deep learning process for security application"
- Received an Appreciation letter from EVP for delivering critical tasks within a short deadline with 100% efficiency