

Gurram Siddarth Reddy

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EDUCATION

Mahindra University

Bachelor of Technology in Artificial Intelligence (AI)

Hyderabad, India

Jul. 2020 – May 2024

CERTIFICATIONS

NVIDIA DLI

Building Transformer-Based Natural Language Processing Applications. CERTIFICATE

Natural Language Processing

Aug 2022

EXPERIENCE

Junior System Administrator

Project R.E.C.O.N

Sep 2022 – Present

Mahindra University

- Installed security/performance patches for operating systems and applications, validated their functionality through rigorous testing, and automated the process using Ansible and Bash scripts.
- Maintained and provided regular support for systems, ensuring optimal performance through automated maintenance scripts developed in Ansible and Bash.

PROJECTS

E.R.I.C - the composer | *Python, h5py, TensorFlow v2, Music21, numpy, Data Preprocessing, Deep Learning*

- Designed and implemented a machine learning based music generation tool using the Tensorflow v2.0, preprocessing the data, training a neural network model, and generated coherent and good-to-hear piano music in MIDI format with the help of LSTM
- Conducted research on generating music with multiple instruments and explored new architectures to enhance the tool's capabilities, demonstrating my ability to think creatively and innovatively.
- GitHub Repo: <https://github.com/siddarthreddygsr/E.R.I.C-on-github>

R.E.C.O.N | *Docker, Kubernetes, SLURM, Graphana, Bash, Ansible, Computer Networks*

recon.mu-enigma.org

- **Mentor: Praveen Kumar Alapati**
- Developed a high-performance distributed system for data processing using a Raspberry Pi with VLAN's on a isolated network with the help of a managed switch
- Deployed and configured HPC tools, such as SLURM, Docker, Kubernetes, and Ansible, along with authentication tools like LDAP on the cluster. Implemented Grafana and Prometheus monitoring to track node status, and set up Grafana Alerts to send notifications via Discord in case of any anomalies.

SSHmon | *Bash, python, flask, psutil, strace, Operating Systems*

- Developed a system administration tool to monitor all the SSH connections to a server using the keylogger functionality to record user activity and stored the data in log files for future analytics
- Implemented a simple systemd process for keystroke logging of incoming tty sessions, utilizing web server, stdin, and locally hosted website for data collection and presentation to administrators.
- GitHub Repo: <https://github.com/siddarthreddygsr/sshmon>

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, Bash, Shell, Swift5, JavaScript, HTML/CSS, SQL

Developer Tools: Git, version control system, Docker, Linux, Kubernetes, Hadoop, Spark, Google Cloud Platform, AWS ec2, CI/CD, pipelines, MLOps, Cloud computing, Tensorflow, PyTorch, scikit learn, NLP, Computer Vision, DigitalOcean, Anible, Networking

Skills: Data Structures and Algorithms, optimization algorithms, debugging, problem solving, documentation, containerization, server integration, APIs, troubleshooting, devops, UI/UX, Figma, presentation, communication, prototyping, computer networks, scripting, automation tools, Development, Deployment, Technical Documentation

ORGANIZATIONS

Enigma

Vice President

The Computer Science club

Feb. 2022 – Present