Gurram Siddarth Reddy

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EDUCATION

Mahindra University Hyderabad, India
Bachelor of Technology in Artificial Intelligence (AI) *Jul. 2020 – May 2024*

Sri Chaitanya Junior College Hyderabad, India
MPC 94% *Aug. 2018 – May 2020*

CERTIFICATIONS

NVIDIA DLI Natural Language Processing
Building Transformer-Based Natural Language Processing Applications. CERTIFICATE *Aug 2022*

EXPERIENCE

Junior System Administrator Sep 2022 – Present
Project R.E.C.O.N *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   The Computer Science club
Vice President   *Feb. 2022 – Present*