Siddharth Aelpula

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EDUCATION

Mahatma Gandhi Institute of Technology 12/2020 – present
Bachelor of Technology, Computer Science Engineering, Hyderabad, Telangana
CGPA: 7.1

Narayana Junior College 06/2018 – 03/2020
11th &12th, Percentage: 96.0% Hyderabad, Telangana

St.Paul's High School 06/2017 – 03/2018
10th, Percentage: 90.0% Hyderabad, Telangana

PROJECTS

Multithreaded Kernel (SidOS) | Real, Protected mode Development
- Developed a clone version of Multithreaded Operating Sytem i.e capable of running on x86 processors.
- Drivers (Disk, PS-2 Keyboard)
- Added FAT16 filesystem supporting all CRUD operations.
- Explored and handled memory management and virtualization techniques.
- Designed a virtual filesystem layer inspired by the Linux kernel.
- Made process and task functionality [Multitasking] with ELF file loader.

MLOps for Image Style Fusion
- Developed Neural Style Transfer approach with full end to end implementation
- Applied MLOps principles using Docker, MLflow, Dask, FastAPI and Streamlit
- Leveraged AWS for scalable infrastructure with CI/CD using Jenkins
- Integrated Docker for model consistency and Hydra for flexible configuration management

Marketplace Fullstack App
- Created advanced authentication: Secure user access with JWT, Firebase, and Google OAuth.
- Implemented real-world CRUD Operations: Manage property listings with create, read, update, and delete capabilities using MongoDB.
- Added advanced search functionality: cutting-edge search features to help users find what they're looking for.
- Deployment: Deployed the MERN app to 'render' platform.

CERTIFICATES

- Workshop on DevOps[MGIT]
- Python Programming
- PostgresSQL

TECHNICAL SKILLS

Languages: C, Python, JavaScript (Node.js, React), SQL (Postgres)
Cloud Proficiency: AWS Pipeline, AWS SageMaker, MongoDB, Google Cloud, FastAPI
Developer Tools: Git, Docker, Kubernetes, Dask,DVC, Hydra, MLFlow
Frameworks: Tensorflow, Pytorch, React, Next.js, Redux Toolkit