Rohan Lingala

281-253-1608 | rlingala@tamu.edu

EDUCATION

Bachelor of Science, Computer Engineering (CPEN) **Graduating Date: 05/2024**
Texas A&M University - College Station, GPA: 3.5

SUMMARY

Computer Engineering student looking for an internship position. Experienced in C/C++, Python based programming, Unix system calls, multithreading, machine learning and data structures. Worked on both hardware and software integration.

SKILLS

Computer Skills: C/C++, network and multithreaded programming, Machine Learning, Cloud, Bash shell, Z shell, Powershell, Word, Excel, Powerpoint, Cisco Packet Tracer, Verilog, Python Based IDE's and Logic Pro X.

PROJECTS

Machine Learning with Letters: 09/2022 - 09/2022

- Created a class that can parse binary files with image data (28 x 28) and utilized a convolution neural network in order to detect letters, and was able to accelerate the runtime model by use of a CUDA.

Oscilloscope: 08/2022 - 09/2022

- Utilized a Raspberry Pi to drive a breadboard circuit that was able to analyze triangle, square, and sine waves. We developed an alternate method for shape analysis without the use of calculus.

Modeling TCP/IP Protocol: 08/2022 - 08/2022

- Using a piped, multithreaded, client/server model, I was able to run the server as a different process as opposed to a forked child process running as the server.

Multithreaded Client/Server Database Model: 07/2022 - 08/2022

- Threaded a client/server model process to increase the speed in which data can be retrieved from the database server which ran as a child process of the client.

Rebuilt the BASH shell: 06/2022

- Created a spoof of the BASH shell, with 70% of its functionality, was able to pipe, redirect, handle directories and utilize basic Unix commands.

Linux VM Game Server: 05/2022 - 06/2022

- Created a virtual game hosting server that utilized crontab and Linux command line scripting that can be turned on and off using a phone through Azure services. Currently working on Discord bot implementation with Docker Containers.

BTHOC: Tamuhack Hackathon: 01/2022

- Implemented an Azure based server side backend used for authentication storage, with CI/CD integration pipeline through Azure DevOps. The backend is fully scalable as well as easily modifiable for cybersecurity and website updating needs.

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ACADEMIC EXPERIENCE

Computer Systems and OS Concepts: 05/2022 – 08/2022

- Learned about OS structure, process API, CPU scheduling, Threading, and Socket API.

Data Structures and Algorithms: 01/2022 – 05/2022

- Learned about the fundamental data structures used in most programs by reconstructing them in order to get a better and more nuanced understanding.

Program Design and Concepts: 08/2021 - 12/2021

- Learned the basics of C++ programming and worked on many different projects.

Introduction to Python (Engineering Lab): 08/2020 - 12/2020

- Learned the basics of Python programming, as well as basic programming skills.

CERTIFICATIONS

- OSHA certified in Safety (2018) and Construction (2019)
- Cisco Networking Academy - Networking Essentials (06/2022)

ADDITIONAL EXPERIENCE

Audio Engineer/Producer: 07/2020 – Current

- Can produce, mix, and master records using my knowledge base of how to manipulate waveforms and music theory and chord progression, as well as balance and acoustic sound design to be able to work on any music project or audio based project given. My main Digital Audio Workstation of choice is Logic Pro X.

Creative Director for PHILSA: 02/2022 - 05/2022

- Assisted with audio editing, lighting, as well as working with choreographers and dancers in order to create a visual show experience.

Work Eligibility: Able to work anywhere in the U.S
