**Jinna Hrudaya**

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**Education**

University of Maryland Baltimore County

Master of Science, Computer Science

Cumulative GPA 3.67

Vardhaman College of Engineering

Bachelor of Science, Electronics and Communication Engineering

Cumulative GPA 3.84

**Skills**

Operating Systems Windows, Mac OS, Linux

Programming C, C++, Python, Java, R, SQL

Networking VPNs, Configure Firewalls, Wireshark

Software Microsoft Office, Juypter Notebook, VM, Visual Code, Github, Azure, SSMS, Docker

**Projects**

*Random Meme Generator - UMBC Fall 2023*

* Preprocessed a meme dataset with 900,000 captions and 300 meme templates. Trained models for 8 hours, with LSTM achieving 63.61% accuracy and CNN at 63.355%, evaluated every 2M samples for CNN and 90k samples for LSTM.
* Designed a full stack web application for generating memes.

*Client-Server Token Manager with Fail-Silent Replication and Atomic Semantics - UMBC* Spring *2022*

* Written in Python. The program used multiple techniques in deep learning – convolutional neural network such as Regularization, Initialization method, Normalization, etc.
* The project was completed on jupyter notebook. Multiple libraries were used such as tenserflow/keras, sklearn, pandas, numpy, etc.

*Linux kernel programming project - UMBC* Fall 2020

* Wrote simple system calls to develop a simulated mailbox. Also develop new filesystem driver for given filesystem within a disk image file.
* The project was written in C and the simulated mailbox consists multiple system calls like create, open, resize, close, etc. They were added into a Linux kernel on a VM. The filesystem driver that was developed used FUSE library for the filesystem that called Multimedia Embedded Memory Encapsulation Filesystem.

**Experiences**

*Teaching Assistant - University of Maryland, Baltimore County, MD August 2023 – Present*

* Holding weekly office hours where student come to get help with problems, and course materials.
* Supervising graders in grading homework, projects, and any other assessments.
* Developing skills in planning lesson, classroom management, communication, and teamwork.

*Research Assistant - University of Maryland, Baltimore County, MD* May 2023 - August 2023

* Built a responsive application using React for the frontend interface that uses to manage devices.
* Implemented backend with Node.js integrating PostgreSQL for storing device configuration and statuses.
* Used Kafka to handle communication and data streams between devices and platform.

*Software Developer - Harman Connected Services, IN* May 2023 - August 2023

* Worked on IoT Device Management platform to manage and update IoT devices deployed in various environments.
* Built a responsive application using React for the frontend interface that administrators use to manage devices. Implemented the backend with Node.js, integrating PostgreSQL for storing device configurations and statuses.
* Used Kafka to handle communication and data streams between devices and the platform

**Certificate**

* Microsoft Azure Fundamentals
* Airflow Fundamentals