# 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

# CERTIFICATES

Microsoft Azure Fundamentals  
Airflow Fundamentals

This resume is being protected by applicant's preferences