Hosanna Tesfaye

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Summary

A detail-oriented and hard-working IT undergraduate student seeking a Summer 2022 Internship position related to Information Technology, where I can develop my skills and knowledge in Cybersecurity and Network Administration.

Education

University of Missouri | Columbia, MO
Bachelor of Science - Information Technology | 12/2022

- GPA: 3.42/4.00
- Undergraduate Certificates: Cyber Security, Media Technology & Design, Information Systems
- MU College of Engineering Dean's Honor Roll: Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021

Experience

University of Missouri | Columbia, Missouri
Library Assistant | 08/2021 - Present

- Showed patrons where to find library resources and collected equipment, reference pieces, and other items.
- Checked out/checked in items using the library computer system and assisted library staff with clerical duties to lighten the workload.

University of Missouri | Columbia, Missouri
Undergraduate Research Student | 05/2021 - 07/2021
Consumer Networking Technologies REU (Research Experiences for Undergraduates) - Supported by NSF

- I participated in a 10-week program supported by NSF in where I engaged, as part of an undergraduate research team, in a scientific research project in which we evaluated Sleep Stage classification using Deep Learning.
- **Our motivation was to provide an automatic, non-invasive, and more accessible method of classifying sleep stages by gathering data from the hydraulic bed sensor and analyzing the data via a deep learning approach.**

Research:

- Conducted literary reviews of previously conducted sleep studies to deepen my understanding of PSG, deep learning techniques, and neural networks.
- Developed a keen understanding of laboratory methods, which included literary review, documentation, research documentation, IRB training.
- Attended presentations to learn more about undergraduate research and the academic environment. Submitted an abstract to 2021 IEEE BIBM Virtual Conference: *Sleep Stage Classification Using Non-Invasive Bed Sensing and Deep Learning.*

Experiments:

- Compiled data gathered from hydraulic bed sensors using Jupyter Notebook and Python programming.
- Used a Convolutional Neural Network (CNN)- Long-Short Term Memory (LSTM) hybrid model with 2 CNNs of different filter sizes for feature extraction. These features are then fed into the LSTM for classification.
- Then we compared our findings to the gold standard for sleep monitoring: Polysomnography (PSG). PSG is a comprehensive study of biological data gathered from test subjects using various sensors.

AT&T
Virtual Externship Student | 06/2020 - 07/2020

- Due to my scheduled IT internship at Lincoln University being cancelled because of COVID-related concerns, I participated in the 2020 AT&T Externship.
- I had the opportunity to listen to well-esteemed guest speakers such as Molly Bloom, Dr. Sanjay Gupta, Dr. Michael Breus, and many more. Each gave their own advice about how to find opportunities in your life, how to make the best use of such opportunities, and how to improve and take care of yourself so that you can flourish.
- Concepts reviewed by the guest stars were: Team collaboration, research practices, problem resolution, networking, and Media Design.

Lincoln University | Jefferson City, Missouri
Information Technology Specialist Assistant | 07/2019 - 08/2019

- Laboratory work – software management for Dell and Apple products across campus for upcoming 2019 Fall Semester, software/hardware management for Cooperative Extensions.
- Desk work – organization and cataloging of contacts/participants for events held in Lincoln Cooperative Extensions 2020 Summer.

Lincoln University | Jefferson City, Missouri
Hydrology Laboratory Technician Assistant | 07/2017 - 08/2017

- Field work – water sample collection and replacement of water pumps.
- Laboratory work – sample preparation for Ion Chromatography analysis, cleaning of equipment, data entry of laboratory results.

Skills

Leadership, Documentation/Reporting, Cultural Awareness, Information Security, Team Collaboration, Problem Resolution, Research, Networking, Critical Thinking

Software

- VMWare Fusion
- Microsoft Office
- MacOS
- Visual Studio Code
- Adobe Creative Cloud
    - Illustrator
    - Photoshop
    - Audition
    - Premiere Pro
    - After Effects
    - Media Encoder

Languages

HTML, CSS, Python, MySQL, MongoDB, C, C#, Java, Javascript

Memberships

- Society of Women Engineers (SWE): 2018-Present
- National Society of Black Engineers (NSBE): 2018-Present
- CyberTigers: 2020-Present
- Mizzou Computing Association (MCA): 2018-Present
- Develop[HER]: Spring 2021- Present
- Upsilon Pi Epsilon Honor Society: 2021-Present
- National Society of Leadership & Success: 2021-Present

Certificates

University of Missouri - [SBR & Biomedical] Training, University of Missouri - [RCR] Training,
AT&T Summer Virtual Learning Academy Certificate