

ABDUL-LATIF GBADAMOSHIE

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EDUCATION

Vanderbilt University, Nashville, TN

May 2022

Bachelor of Engineering, Mechanical Engineering & Minor in Computer Science

Relevant Coursework: Programming & Problem Solving (Java), Program Design & Data Structures (C++), Computers and Ethics, Discrete Structures, Intermediate Software Design (C++)

SKILLS

Programming Languages: C/C++, Java, Python, JavaScript

Technologies: Scikit-Learn, NumPy, Pandas, Matplotlib, Beautiful Soup, Keras, TensorFlow, Git, ROS, Django

EXPERIENCE

Amazon Web Services (AWS), Propel Software Development Engineer Intern June 2021 – August 2021

- Enhanced on-call and ticket resolution by developing an internal dashboard (using Django and JavaScript) that centralizes information needed to monitor EC2 instances across multiple sources.
- Authored a technical design document, detailing design options and architectures, pros, and cons, and presented it before team of developers prior to implementation.
- Incorporated enhanced software design patterns to create the abstraction necessary to expand the dashboard's functionality without affecting existing features.

Vanderbilt University Institute for Software Integrated Systems, Research Intern June 2020 – August 2020

- Programmed and debugged autonomous racing algorithms to compete in the international F1Tenth racing competition with 12 other universities using the Python implementation of ROS.
- Optimized car steering angles and racing speeds by 160%, leading the team to pass the first round of the competition of baseline autonomy and obstacle avoidance.
- Created an image dataset of over 10, 000 entries by capturing images of a simulated racetrack with OpenCV.
- Implemented a deep learning model to autonomously drive a race car using Keras and TensorFlow.

Vanderbilt University, Teaching Assistant

August 2020 – Present

- Undergraduate Teaching Assistant for CS2201, Program Design and Data Structures.
- Hold weekly office hours for 200 students in the course to assist them in their programming assignments and general course content, including testing, debugging, and understanding of the C++ language and programming.
- Grade programming assignments and exams and provide constructive feedback to students on how to write clean, efficient code.

PROJECTS

YouTube Video Analyzer (*Python*)

June 2020

- Designed a backend program that displays the number of likes, dislikes, and comments of YouTube video search results to aid in selecting the most promising videos using YouTube's Data API.
- Analyzed general comment sentiments of YouTube videos using the Natural Toolkit Library, NLTK.
- Collaboratively ideated and validated project outlines and progress with teammate using Git and GitHub.

Image Classifier (*Python*)

July 2020

- Implemented a machine learning model to classify handwritten digits with 97% accuracy by utilizing the MNIST dataset.
- Developed a deep learning model to identify different clothing types from the Fashion MNIST dataset using Keras and TensorFlow.
- Created an artificial neural network that discerns images of dogs and cats with 95% accuracy using Keras and TensorFlow.

ACTIVITIES

Activities: National Society of Black Engineers (NSBE), Vanderbilt Aerospace Design Lab (VADL)