TAMARAUPREYE BENNI

Summary

A highly motivated and innovative aspiring electrical engineer interested in machine learning, computer programming, low-level processor design, and mathematical analysis. Passionate about learning and using my acquired knowledge, eye for quality, functional design and meticulous attention to detail to solve challenging, multi-faceted, fundamental problems.

Employment

Apple Inc. — Cupertino, CA
PSQ Intern — May 2019 to Aug. 2019

- Wrote scripts for automated device testing
- Designed and built robotic fixtures with computer vision for automated device testing

ActivEdge Technologies — Lagos, Nigeria
Software Development Intern — July 2018 to Aug. 2018

- Worked in a team of software engineers to develop utilities for SmartStream's Corona (a Transaction Lifecycle Management System used by financial institutions to manage end-to-end transaction flow) using Java
- Created Logging functionality for the application

Projects

Secure, Smart Traffic Project — Sept. 2019 to Current

- Assembling a TI Robotics Systems Learning Kit vehicle for Internet of Things research.
- Programming the TI MSP432 micro-controller for the project.

Burglary Alarm System

- Assembled and programmed a simple burglary alarm system with an Arduino Uno, ultrasonic sensor and LED lights

CGPA Calculator

- Personal project in Java
- Built an infinitely scalable desktop application using Java Window Builder and Swing that could calculate a student's CGPA at the end of the semester for any number of courses

Tam's Online Shop

- Developing an online shopping site using Java's Spring MVC Framework and MySQL database
- Developed a secure authentication module with password encryption to allow users login to add items to their cart and allow administrators login to manage (add, edit and delete) products in inventory
- Used an online template to create an attractive and interactive User Interface for the website

Google D.C. Hackathon 2018

- Worked with a team of 5 engineers on a series of 12 coding challenges in Python
- Recognized with a first place award for exceptional work
- Built an online banking program where users create accounts, login, view balance, deposit, withdraw and transfer funds

#BisonHacks 2020

- Worked in a team of 5 engineers to develop Konnect, a business analytics app that scrapes the internet to discover public sentiment about businesses in real time
- Used Flask DB to build the database for the application
- Built the sentiment analysis feature for the application
- Won the J.P. Morgan Chase award for "Best Social Hack"

Awards

Howard University College of Engineering and Architecture · Dean's List — Fall 2018

- Recognized as one of the best Electrical Engineering students at the end of the 2017-2018 academic year

Thurgood Marshall College Fund · Apple HBCU Scholar — Dec. 2018

- Awarded a $25,000 scholarship and a 12-week Apple internship as an exceptional student in a HBCU

Howard University · Presidential Scholar — Fall 2017

- Obtained the most selective scholarship awarded to an incoming freshman based on academic performance. Covers the total cost of attendance for the duration of study ($40,000 per year)

Activities

Howard University Robotics Organization · Chief Financial Officer — Aug. 2018 to Dec. 2019

- Liaising with the College of Engineering Student Council to provide funding and organize fundraisers for the organization
- Organized club events which included short lectures and simple Arduino robotics team projects for over 20 students

Institute of Electrical and Electronics Engineers · Community Service Chair — Jan. 2020 to Current

- Organized volunteer events at the D.C. Cherry Blossom Festival and with Girls Who Code for over 20 members of the organization

Contact

tamaraupreyebenni@gmail.com
(267) 461-5494
2251 Sherman Ave NW, Washington D.C. 20001
tamaraupreye-benni-294b2b14a

Education

Howard University
Aug. 2017 to Current
B.S. Electrical Engineering 2021
GPA: 3.89

Skills

PROGRAMMING
Python
Java
C/C++
MATLAB
Git

COMPUTER AIDED DESIGN
Siemens NX
Cura

MACHINE LEARNING
Turi
OpenCV

ELECTRICAL ENGINEERING
PSpice
Arduino
VHDL
ModelSim

RELEVANT COUSEWORK
Calculus & Discrete Mathematics
Circuit Theory and Electronics
Machine Learning on Coursera
Engineering Math and Programming
Random Variables and Probability
Python, C++ and Java Programming
Computer Networking
Electromagnetics & Signal Processing
Digital System, Microcomputer & VLSI Design