TAMARAUPREYE (TAM) BENNI

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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 and functional design, and meticulous attention to detail to solve challenging, multi-faceted, fundamental problems.

EDUCATION

Howard University Aug. 2017 to May 2021
B.S. Electrical Engineering
GPA: 3.97

EMPLOYMENT

Apple Inc. Cupertino, CA
PSQ Intern May 2019 to Aug. 2019, June 2020 to Aug. 2020

- 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

#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"

Secure, Smart Traffic Project

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

Tam's Online Shop

- Developed 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

LC-3 VHDL design

- Designed entities required for a simple computer that uses the LC-3 instruction set
- Created a Finite State Machine for the computer
- Wrote VHDL testbenches to simulate sample instructions and verify the output

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

SKILLS

PROGRAMMING: Python, Java, C/C++, MATLAB, Git, SQL, Database Design
COMPUTER AIDED DESIGN: Siemens NX, Cura
MACHINE LEARNING: Turi, OpenCV
ELECTRICAL ENGINEERING: PSpice, Arduino, VHDL, ModelSim, Embedded Systems Design, VLSI Design

AWARDS

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

- Recognized as one of the best students in the Electrical Engineering department

Thurgood Marshall College Fund · Apple HBCU Scholar

- Awarded a scholarship and a 12-week Apple internship as an exceptional student in a HBCU

Howard University · Presidential Scholar

- 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

ACTIVITIES

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

- Liaised 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