FAYOKEMI OJO

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EDUCATION

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY (UMBC)   BALTIMORE, MD

Bachelor of Science in Computer Science

Minor in Information Systems | Certificate in Web Design

Anticipated Graduation Date: May 2020

- ❖ Center of Women in Technology (CWIT) Affiliate
- ❖ Ronald E. McNair Post Baccalaureate Achievement (McNair Scholar) Program
- ❖ Cyber Affiliate

TECHNICAL EXPERIENCE

EMBEDDED PROCESSING SOFTWARE ENGINEER INTERN TEXAS INSTRUMENTS   DALLAS, TX

JUNE 2019 – PRESENT

- ❖ Experimented with hashes to optimize tests and increase efficiency for Low Power Radio Frequency (LPRF) testing
- ❖ Utilized Python with Conan I/O and Jenkins to automate testing of dependencies when a library is edited
- ❖ Created and enhanced software development tools used by application engineers using Python and Bash scripting

UNDERGRADUATE RESEARCHER UMBC: Prototype and Design Lab   BALTIMORE, MD

JANUARY 2018 – PRESENT

- ❖ Experiment with a Raspberry PI, RFID Reader, and a 3-D printed case to assist fellow researchers in creating a "do-it-yourself" assistive device
- ❖ Create demonstration videos and documents delineating how to create and use the assistive device

INFORMATION TECHNOLOGY INTERN TEXAS INSTRUMENTS   DALLAS, TX

MAY 2018 – AUGUST 2018

- ❖ Enhanced company web applications to assist technicians with part installation and mitigate costly errors
- ❖ Collaborated with fellow interns to a create web applications that reduced search time and maximized managers' productivity

UNDERGRADUATE RESEARCHER UNIVERSITY OF TEXAS AT DALLAS   RICHARDSON, TX

MAY 2017 – JULY 2017

- ❖ Conducted research in software safety analysis to integrate functional requirements and fault tree analysis into one model

ON-CAMPUS EXPERIENCE

UNDERGRADUATE TEACHING ASSISTANT (CMSC 202) UMBC   BALTIMORE, MD

JANUARY 2019 – PRESENT

- ❖ Leading weekly labs with office hours to ensure students understand concepts like pointers, memory management, polymorphism, etc. in C++
- ❖ Collaborate with the course coordinator to create new and engaging assignments that will allow students to apply their knowledge
- ❖ Grading all assignments and leaving meaningful feedback

RESIDENT ASSISTANT UMBC   BALTIMORE, MD

AUGUST 2018 – PRESENT

- ❖ Independently plan and implement engaging programs for residents in order to create community
- ❖ Enforce residential life policy by patrolling community to ensure residents are in a safe environment conducive to study

MCNAIR AMBASSADOR UMBC   BALTIMORE, MD

AUGUST 2017 – MAY 2018

- ❖ Collaborated with McNair staff to successfully implement engaging programs for scholars
- ❖ Designed and updated program website

TECHNICAL THEATRE ASSISTANT UMBC   BALTIMORE, MD

SEPTEMBER 2015 – MAY 2017

- ❖ Coordinated student employee and volunteer schedules
- ❖ Organized and itemized physical inventory to promote productivity and simplify search

RESEARCH FUNDING

- ❖ LSAMP Spring Research Program 2019 ($1,500)
- ❖ McNair Spring Research Institute 2019 ($2,800)

PUBLICATION

- ❖ Hamidi, Foad & Kumar, Sanjay & Dorfman, Mikhail & **Ojo, Fayokemi** & Kottapalli, Megha & Hurst, Amy. (2019). SenseBox: A DIY Prototyping Platform to Create Audio Interfaces for Therapy. Proceedings of the Thirteenth International Conference on Tangible, Embedded, and Embodied Interaction. 25-34. 10.1145/3294109.3295633. Paper acceptance rate 30%.

SELECTED PRESENTATIONS

- ❖ Poster Presenter, "Creating Fabrication Instructions for a DIY Therapy Device" at SAEOPP McNair/SSS Research Conference, June 2019
- ❖ Poster Presenter, "Creating Fabrication Instructions for a DIY Therapy Device" at UMBC's Undergraduate Research and Creative Achievement Day, April 2019
- ❖ Featured Speaker and Panel Facilitator, "Supporting and Inspiring the Next Generation of Black Women in Computing + Tech" at #blackComputerHer Washington, DC, April 2019
- ❖ Poster Presenter, "Managing Compliance Debt in Software Development" at UMBC's Undergraduate Research and Creative Achievement Day, April 2018

LEADERSHIP AND INVOLVEMENT

UMBC

- ❖ Computer Science Education Club President
    - • Coordinate fundraising and spending of the organization' funds

- Organize and support computer science outreach events in the Catonsville area
- ❖ Society of Women Engineers (SWE) Vice President (August 2018 – May 2019)
  - Promoting the organization on campus and finding guest speakers from manufacturing and technical companies to engage members during general body meeting
  - Support outreach initiatives aimed at recruiting and retaining women in engineering
- ❖ Introduction to an Honors University (IHU) Peer Facilitator (August 2017 – May 2018)
  - Teach classes designed to ensure first-year student success along with a staff instructor

VOLUNTEERING AND OUTREACH EVENTS

TEACHING ASSISTANT LAKELAND ELEMENTARY/MIDDLE SCHOOL   BALTIMORE, MD
- ❖ Introduce 1st and 2nd grade students to computer science concepts through Scratch

HOUR OF CODE UMBC (December 5-6th, 2018)   BALTIMORE, MD
- ❖ Organized and facilitated this two-day event focused on getting people introduced to computer science. The first day was focused on UMBC students and on the second day, student from Lakeland Elementary School visited UMBC to partake in the Hour of Code activities

PYTHON FOR KIDS HEAVEN'S GLORIOUS EMBASSY (July 2017)   PLANO, TX
- ❖ Taught children between the ages of 10 and 13 how to program in Python

SKILLS

Languages	Python, C++, HTML, Java, SQL, R
Operating Systems	Windows, UNIX, Linux, macOS
Other Skills	Intermediate Spanish, Advanced Yoruba, Soldering