FAYOKEMI OJO

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EDUCATION

JOHNS HOPKINS UNIVERSITY – WHITING SCHOOL OF ENGINEERING   BALTIMORE, MD

MSE Student in Systems Engineering

Anticipated Graduation Date: December 2022

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

B.S. in Computer Science

Minor in Information Systems | Certificate in Web Design

Graduation Date: May 2020 | GPA: 3.42

RESEARCH EXPERIENCE

VISITING RESEARCHER MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS   STUTTGART, GERMANY

Advised by Dr. Katherine Kuchenbecker (Paper in Progress)

SEPTEMBER 2020 – MARCH 2022

- ❖ Create and refine an emotional response algorithm that enables a small humanoid robot to respond to various physical gestures in an emotionally intelligent way

DATA SCIENCE INTERN ADOBE RESEARCH   REMOTE

Advised by Dr. Ryan Rossi (Patent Pending)

JUNE 2021 – SEPTEMBER 2021

- ❖ Developed a Graph Neural Network (GNN) framework for the problem of personalized visualization recommendation where we score the relevancy of visualizations that represent a users' past visualization interactions

UNDERGRADUATE RESEARCHER UMBC: Prototype and Design Lab   BALTIMORE, MD

Advised by Dr. Foad Hamidi

JANUARY 2018 – JUNE 2019

- ❖ Experimented with a Raspberry PI, RFID Reader, and a 3-D printed case to assist fellow researchers in the creation and improvement of "do-it-yourself" (DIY) assistive technology
- ❖ Created demonstration videos and documents delineating how to create and utilize the DIY technology

UNDERGRADUATE RESEARCHER UNIVERSITY OF TEXAS AT DALLAS   RICHARDSON, TX

Advised by Dr. Eric Wong

MAY 2017 – JULY 2017

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

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PUBLICATIONS

- ❖ **Ojo, Fayokemi**, Ryan A. Rossi, Jane Hoffswell, Shunan Guo, Fan Du, Sungchul Kim, Chang Xiao, and Eunyee Koh. "VisGNN: Personalized Visualization Recommendation via Graph Neural Networks." In *Proceedings of the ACM Web Conference 2022*, pp. 2810-2818. 2022. Acceptance Rate 18%.
- ❖ 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. Acceptance Rate 30%.

ADDITIONAL EXPERIENCE

EMBEDDED PROCESSING SOFTWARE INTERN TEXAS INSTRUMENTS   REMOTE

MARCH 2021 – JUNE 2021

- ❖ Created an automation script that replicated the structure of various MSP devices enabling customers to have a smoother configuration process.

SOFTWARE RESEARCH AND DEVELOPMENT INTERN TEXAS INSTRUMENTS   REMOTE

JUNE 2020 – AUGUST 2020

- ❖ Designed and implemented an Automated Bug Reporting Tool in Python to classify errors after testcase failures

UNDERGRADUATE TEACHING ASSISTANT (CMSC 202, 304) UMBC   BALTIMORE, MD

JANUARY 2019 – MAY 2020

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

RESIDENT ASSISTANT UMBC   BALTIMORE, MD

AUGUST 2018 – MAY 2020

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

EMBEDDED PROCESSING SOFTWARE INTERN TEXAS INSTRUMENTS   DALLAS, TX

JUNE 2019 – AUGUST 2019

- ❖ 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

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 create web applications that reduced search time and maximized managers' productivity

RESEARCH FUNDING/AWARDS/SCHOLARSHIPS/FELLOWSHIPS

- ❖ Whiting School of Engineering: Gordon Croft Endowed Fellow 2021
- ❖ GEM Full Fellow - Selected by Adobe 2021

- ❖ UMBC Black Graduate Student Association: Black Undergraduate "Rising Star" Award 2020
- ❖ ACM Richard Tapia Conference Scholar 2019
- ❖ Grace Hopper Celebration Scholar 2019
- ❖ LSAMP Spring Research Program 2019 ($1,500)
- ❖ McNair Spring Research Institute 2019 ($2,800)

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 (January 2019 – May 2020)
  - • Coordinated fundraising and spending of the organization' funds
  - • Organized and supported computer science outreach events in the Catonsville area
- ❖ Society of Women Engineers (SWE) Vice President (August 2018 – May 2019)
  - • Promoted the organization on campus and finding guest speakers from manufacturing and technical companies to engage members during general body meeting
  - • Supported outreach initiatives aimed at recruiting and retaining women in engineering
- ❖ Introduction to an Honors University (IHU) Peer Facilitator (August 2017 – May 2018)
  - • Taught classes designed to ensure first-year student success along with a staff instructor

VOLUNTEERING AND OUTREACH EVENTS

TEACHING ASSISTANT LAKELAND ELEMENTARY/MIDDLE SCHOOL (Feb-May 2019)   BALTIMORE, MD

- ❖ Introduced 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, students 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

Programming Languages	Python, C++, Java, SQL, R, SonicPi, MATLAB
Software	Choregraphe, Cura, MySQL, Jenkins, Docker
Foreign Languages	Intermediate (B1) Spanish, Beginner (A2) German, Advanced Yoruba