Uchendu Uchendu

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Software Developer / Front-end Developer

About Me

I am an Informatics M.S. student at Pennsylvania State University. My interests are in Software Development and UI/UX Design. My current research is in Human-Computer Interaction. I have experience creating apps and interfaces with React and Flutter.

Education

Pennsylvania State University — State College, PA
Master of Science in Informatics — *Aug. 2020 – May 2022*

University of Maryland Baltimore County — Catonsville, MD
Bachelor of Science in Information Systems — *June 2015 – May 2020*

Academic Achievements and Awards

CRA IDEALS Workshop Student Scholarship — March 2022
Louis Stokes Alliance Minority Participation (LSAMP) — June 2019 – May 2020
High Performance Computing NSF funding (REU Project) — Aug. 2019 – May 2020

Skills

Programming Languages: Dart, JavaScript, HTML/CSS, PHP, Java, SwiftUI, Python, SQL
Developer Tools: Flutter, Node.js, React.js, Firebase, Angular, Bootstrap, Docker, Git, Xcode, VS Code, PyCharm, IntelliJ, Eclipse
Operating Systems: Linux, Windows, MacOS
Libraries: pandas, NumPy, Matplotlib, XGBoost
Clusters: Taki, Hadoop

Projects

Effects of Micro Benefits of collective Organizations on Gig-Platform workers. — Aug. 2020 – Present

- Working in accordance with the Independent Drivers Guild to provide a micro-service to gig-platform workers.
- Created a application using Flutter for gig-platform workers.
- Studying the effects of Group Efficacy in a platform that promotes human agency.

Mobile Application for Stroke Prediction — Spring 2021

- Analyzed and utilized different stroke prediction techniques.
- Calculated and compared precision and accuracy scores.
- Created an interface for the mobile application using Adobe XD.

Covid-19 Geo-Map Visualization — Spring 2021

- Constructed an interactive Geo-Map display using Covid-19 data.
- Utilized Python and HTML to facilitate this visualization.

Spam Detection using Machine Learning — Spring 2021

- Created a Spam detection model with 99% accuracy.
- Utilized the Multinomial Naive-Bayes classifier.

Presentations and Publications

- Kroiz, G. C., Basalyga, J. N., **Uchendu, U.**, Majumder, R., Barajas, C. A., Gobbert, M. K., Markert, K., Mehta, A. and Neerchal, N. K. (2020). Stochastic precipitation generation for the Potomac river basin using hidden Markov models. UMBC Physics Department.
- Presented at the Mid-Atlantic Writing Center Association (MAWCA) (2020) research conference.
- Poster Presentation at the 27th UMBC McNair Research Conference (2019).
- Poster Presentation at the 3rd Annual University System of Maryland (USM) LSAMP Fall Research Symposium (2019).

Experience

Teaching Assistant Aug. 2020 – present
College of Information Science and Technology *State College, PA*

- Assisted in grading assignments
- Met with students to clarify the course material
- Presented material in class

Undergraduate Research Assistant Sept. 2019 – May 2020
University of Maryland Baltimore County *Catonsville, MD*

- Applied the knowledge and skills of high-performance computing (HPC) and Big Data to solve challenges in Atmospheric Sciences.
- Utilized the UMBC data cluster system (HDFS and SPARK)

Undergraduate Research Assistant Summer 2019
University of Maryland Baltimore County *Catonsville, MD*

- Conducted research that involved predicting future climate conditions by determining the cause-effect relationships between climate datasets.
- Developed regression models in Python using Xgboost
- Discovered non-linear causal relationships between datasets using Xgboost

Writing Tutor Sept. 2019 – May 2020
UMBC Academic Success Center *Catonsville, MD*

- Assisted Students with help regarding writing assignments
- Improved my writing skills
- Presented at MAWCA2020 research that was done in the writing center (Importance of Diversity in the Writing Center)