Uchendu Uchendu

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Software Developer / Data Scientist

EDUCATION

Pennsylvania State University   State College, PA
MS in Informatics (Human-Computer Interaction)   *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

Louis Stokes Alliance Minority Participation (LSAMP)	June 2019 - May 2020
High-Performance Computing NSF funding (REU Project)	August 2019 - May 2020
ACL DEI Scholarship Awardee	Summer 2022
ACM Richard Tapia Conference Student Scholarship	Fall 2021
Graduate Assistantship	August 2020 - May 2022

SKILLS

Programming Languages: Dart, JavaScript, HTML/CSS, PHP, Java, SwiftUI, Python, SQL
Developer Tools: Flutter, Node.js, React.js, Firebase, 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 – May 2022
- Working in accordance with the Independent Drivers Guild to provide a micro-service to gig-platform workers
- Created an application (micro-service) that helps the gig-platform workers buy tires at a discounted rate
- Developed the smartphone application using Flutter
- Utilized Firebase as the database for the application
- 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

Toxic Word Detection in Social Media   Spring 2021
- Implemented toxic word detection using a 6M twitter dataset
- Isolated the top 15 words associated with Islamic and Christian countries

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.
- Poster Presentation at the 27th UMBC McNair Research Conference
- Poster Presentation at the 3rd Annual University System of Maryland (USM) LSAMP Fall Research Symposium
- Presented at the Mid-Atlantic Writing Center Association (MAWCA) 2020 research conference

EXPERIENCE

Teaching Assistant Aug. 2020 – May 2022

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.
- Using 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)