Chukwuemeka Emmanuel Okafor

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Education

Rochester Institute of Technology   Aug./'20 - May/'22
MS Computer Science 2022
BS Electrical Engineering 2020
GPA: 3.7/4.0
Relevant Coursework: Foundation of Computer Vision, Natural Language Processing, Intro to Artificial Intelligence, Understanding Human Behavior Dynamic, Foundation of Algorithms

Work Experience

Xylem Inc   Rochester, New York
Software Development Intern   June/'20 - Present
• Initially familiarized with project by surveying and improving unit test coverage.
• Made a process improvement to standardize product reports: T4 Templates for text generating, and HTML/CSS for re-usability over old PDF graphic-drawing code.
• Evaluated and recommended various improvements to desktop deployment(Installers) to adapt to urgent customer needs
• Developed a template, and tutorial for teammates on utilizing new Installer

Summer Research Opportunities Program   Notre Dame, Indiana
Research Intern   May/'19 - July/'19
• Designed an optical setup used to acquire scattering and absorption coefficient from a tissue phantom for frequency-domain optical spectroscopy.
• Recorded optical power data produced by the laser photodiode for analysis purposes.
• Presented the hardware prototype at the Summer Undergraduate Research Symposium at the University of Notre Dame.

Intel Corporation   Hudson, Massachusetts
Test Technology Intern   June/'18 - Dec./'18
• Developed additional functionality to test scripts to support the development of intel's 14nm chips and added documentation for future use.

MKS Instruments   Rochester, New York
Reliability Engineering Intern   Jan./'19 - May/'19
• Developed a python program to automate the collection of reliability testing data and data formatting for the company.
• Performed multiple failure analysis for customers' components to verify functionality.
• Analyzed design parameters and subsequent component's stress cases to verify equipment are functioning properly.

Projects

Automatically detecting and recognizing text in natural images   June/'20 - Aug./'20
Designed a system to detect and recognize text from unstructured images

Predicting Relapse to Addiction using Machine Learning   Aug./'20 - Apr./'20
• Designing a machine learning model to predict the chance of drug relapse based on sequential data of drug addicts over the years.

Detecting Cyberbullying on Twitter using machine learning
Using the twitter API and NLP techniques, building a machine learning model to determine tweets that are have cyberbullying traits

Facial Emotion Detector   Jan./'20 - Present
• Designed and developed a face_detection software using Open-CV and an open source facial recognition library.
• Developed a 6-layer CNN classifier model that classified images according to their emotional respective states.
• Tuned the hyper parameters to improve accuracy from 0.32 to 0.64.

Activities

Phi Kappa Psi · *Scholarship Chair| Major Events Chair|Public Relations Chair*

New Student Orientation · *Orientation Leader*

RIT Student Government · *Facilities, Parking and Transportation Chair*

Men Of Color Honor and Ambition 7th Cohort

National Society of Black Engineers

Robotics Club

Running Club

NeuroTechnology Exploration Team