

EMMANUEL OKAFOR

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Education

Rochester Institute of Technology

MS Computer Science 2021

BS Electrical Engineering 2020

Skills

PROGRAMMING LANGUAGES: C++, C#, Html, JavaScript, Python, CSS, Java, SQL, Perl

SOFTWARE: GIT, Jupyter Notebook, Agile Scrum, Adobe Creative Suite

FRAMEWORKS: Node.js, React.js, Tensorflow, .NET

Projects

Baseball Visual Swing Training

Aug./19 - Present

- Implemented a motion tracking software that tracks a baseball during a baseball training practice and calculates the exit velocity of the baseball (Skills utilized: Python, Computer Vision)

Facial Emotion Music Player

Jan./20 - Present

- Developed a system that will detect a face on a webcam and determine the emotional state of a user based using deep learning.
- Based on the user's emotional state, it will play a playlist that will either alleviate a negative emotion or maintain the positive emotion (Skills utilized: Python, Keras, Tensor Flow, Skit-learn, Spotify API)

Thought Keyboard Team

Jan./20 - Present

- Part of the Thought Keyboard Team is creating software that allows individuals with disabilities that affect motor control to more easily use computers.
- Designing and developing the keyboard user interface that participants will use to interact with the system using EEG signals (Skills utilized: Html, CSS, React, Javascript)

Work Experience

University Of Notre Dame

Notre Dame, Indiana

Summer Research Opportunities Program

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. (Skills utilized: Oscilloscope, Soldering, Excel, Network Analyzer, Optics)

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. (Skills utilized include: GIT, Perl, Eclipse, Linux, Html)

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' component to verify functionality.
- Analyzed design parameters and subsequent component's stress cases to verify equipment are functioning properly. (Skill utilized: Soldering, Oscilloscope, logic Network Analyzer, Python, Multi-meter, microscopic Imaging)

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