EMMANUEL MIREKU

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EDUCATION
State University of New York at Brockport, Bachelor of Computer Science Sept 2015 - May 2020
- **Minored in Graphic Design**
- Served as **Commnunity Liason** for **Girl Up** club May 2019 - May 2020

SKILLS
Languages: Java, JavaScript, HTML, CSS, SQL

Coding Tools: Git, Visual Studio, Postman

Design: Illustrator, InDesign, Photoshop, Lightroom

Frontend: React, Bootstrap, UIKit

Backend: Node.js, MongoDB, PHP

EXPERIENCE
SUNY at Brockport Dpt. of Computer Science, **Student Researcher** May 2019 - Dec 2019
Publication: *https://doi.org/10.1145/3374135.3385270*
A research team of three students Zachary Tuttle, Carl Thurnau, and I with professor Ning Yu focusing on AI-powered GUI attack and Its defensive methods. We utilized **TensorFlow Python**, **OpenCV**, and **PYAutoGUI** libraries to build an AI that can detect web browser icons and attack victims by logging them into their blackboard to send a group email. My role was to:
- Desing a **UML** diagram for executing the attack with the browser detector API.
- Utilize **OpenCV**, **Imutils**, and **PYAutoGUI** to execute the attack once a browser was detected on a victim's computer.

PROJECTS
Stack Data Structure August 2020
Live demo: *https://emmanuel-mireku.github.io/stack-app/*
- A frontend application to imitate and demonstrate how the stack data structure works with all the methods asscoiated with the data structure such as the pop and push methods.
- Created with plain **HTML**, **CSS**, and **JavaScript**.

Sticky Note Jan 2019
Live demo: *https://emmanuel-mireku.github.io/sticky-note/*
- Simple frontend application made with React. It includes features to add/edit/delete sticky notes.
- Quickly bootstrapped with **React** and **react-bootstrap**.

Color Generator April 2020
Live demo: *https://color-em.herokuapp.com/*
- A **Node.js** application that allows a user to edit RGB and gradient values with sliders while display-ing the color. Makes a request to thecolorapi.com with the RGB or gradient values which returns the name of the values as well.
- The UI was built with **UIKit** and the backend was built with **Express.js** and **Node.js MVC model**, while **Pug.js** was used as server-side **HTML** rendering.

COURSEWORK
Programming Fundamentals, Unix Tools, Networking, Algorithms and Data Structures, Graphic Design, Typograhpy, Intro to Artificial Intelligence