

# EMMANUEL MIREKU

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## EDUCATION

The State University of New York at Brockport, Bachelor of Computer Science Sept 2015 - May 2020

- Minored in Graphic Design
- Served as Community 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 Their 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 associated 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 displaying 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, Typography, Intro to Artificial Intelligence