Brandon Cossin

bcossin@kent.edu ❖ Stow, Ohio

Education

- **Kent State University**   **Graduating: Spring 2022**

Senior B.S. in Computer Science – 3.6 G.P.A.   *Kent, Ohio*
  - **Relevant Coursework** – CS I: Object Oriented Programming, CS II: Data Structures, CS III: Programming Patterns, Discrete Structures, Database System Design, Data Mining Techniques, Big Data Analytics, Software Engineering, Analytic Geometry and Calculus I and II, Linear Algebra

Projects

- **COVID-19 Classification Data Mining** – Python, Scikit-Learn, Matplotlib
  - Classified COVID-19 risk of death by age, race, and sex
  - Used CDC dataset of 34 million entries to calculate the risk
  - Decision Tree was the technique used for balance purposes and visualization
- **COVID-19 Data and Analysis –** Python, Cytoscape
  - Correlation of covid cases compared between neighboring states
  - Daily, Weekly, Monthly rolling windows analyzed
  - Cytoscape used to create a network graph of nodes(states) and edges(correlation) over time
  - Animated geographical heatmap created to show rise in cases and case percentage over time
- **BookTabs** – React.JS, MongoDB, Express, Node.js
  - Development of a multiuser book review platform using the Google Book API.
  - Uses React.JS for the front-end components and Express for the back-end routes.
  - Allows users to search by book or by author and get more information about specific books.
  - Users can make an account and add or like books, saving them to a MongoDB list.
- **Shopping Website** – PHP, MySQL, HTML/CSS
  - Shopping website that allows users to access and view products from MySQL using PHP
  - Users can create an account/log-in, sort items by search or by filters, and add items to a cart.
  - http://brandoncossin.com/database-project/Shopping/
- **Abstract Data Type Integer** - C++
  - Dynamically allocated integer Abstract Data Type
  - Recreates the integer class and its library functions
  - Created test cases to ensure proper functionality

Skills

- **Languages:** C++, Python, JavaScript, React.js HTML/CSS, MySQL
- **Software and Technology:** Visual Studio, EMACS, Microsoft Office, Git, SVN

Organizations

- **Member** – Choose Ohio First
- **Member** – HackKSU

Scholarships and Awards

- **Recipient** – Golden Ambassador Literary Award
- **Recipient** – Dean's List Fall 2019, Spring 2020, Fall 2020, Fall 2021
- **Recipient** – President's List Spring 2021

Work Experience

- **YMCA**   **January 2016 – Present**

Lifeguard   *Cuyahoga Falls, Ohio*
  - CPR certified
  - Monitored the safety of all guests in the aquatic area.