**Matthew Wix**

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Github- <https://github.com/MWix123/>

Website Portfolio - <http://matthewwix.com/>

**Education**

**Bachelor of Science in Computer Science & Applied Mathematics August 2020**

Florida State University (FSU), Tallahassee, FL **Overall GPA: 3.95**

**Technical & Language Skills**

Programming Languages: **C++, C, Python, Java, HTML, CSS, JavaScript, VBA, SQL**

Frameworks: **Django, React**

Platforms: **Linux, Microsoft Windows, Apple (Mac)**

Microsoft Office Suite: **Word, Excel, PowerPoint, Access**

**Related Experience**

FSU Office of Financial Aid, Tallahassee, FL

**Technical Support Specialist August 2018 – Present**

* Revamp and maintain Florida State University’s Financial Aid Webpage (<https://financialaid.fsu.edu/>)
* Automate data extraction from Oracle Campus Solutions system using Selenium
* Used Microsoft Excel to create custom spreadsheets and pivot tables to extract data
* Develop and maintain database for tracking office hardware information using Microsoft Access
* Develop metric charts and graphs for presentations and statistical analysis
* Provide technical support and troubleshooting to 20-30 employees with hardware and software issues
* Design documents, infographics, and financial guides

**Projects**

**Financial Data Extraction June 2019**

* Developed a user interface with TKinter and Selenium that enabled members of the FSU Financial Aid Office to run multiple different queries in FSU’s Oracle Campus Solutions system and have the results consolidated into a single Excel spreadsheet
* Implemented a custom spreadsheet with VBA that significantly improved the FSU Financial Aid Accounting department’s productivity by streamlining the process of extracting financial data

**Master Calculator July 2019**

* Created a web application that solves mathematical equations of college level difficulty while providing a clean and intuitive interface for users (<http://advanced-math-calculator.herokuapp.com/>)

**Maze Generator August 2019**

* Created a webpage that randomly generates a maze of size 16x16, 32x32 or 64x64 based on the user's choice (<http://matthewwix.com/Maze-Generator/>)

**Big Integer Class January 2019**

* Created a Big Integer class in C++ capable of supporting numbers with up to 2^64-1 digits (<https://github.com/MWix123/BigInteger-Class-Project->)

**Education-Related Experience**

**Operating Systems January 2019 – May 2019**

* Used C to implement operating system concepts such as a bash shell and reading/writing to a FAT32 file system image

**Data Structures and Algorithms Project August 2018 – December 2018**

* Used C++ to write a program to convert from infix to postfix expressions using a stack data structure

**Object-Oriented Programming January 2018- May 2018**

* Understood the Object-Oriented Programming concepts and C++ techniques
* Implemented Sieve of Eratosthenes algorithm operating on single bits for memory savings