Jonathan Malcomb

1012 Community Drive, Morgantown WV, 26505 • https://jonathan-wvu.dev • jmm0023@mix.wvu.edu

EDUCATION

WEST VIRGINIA UNIVERSITY - Morgantown, WV

Expected Graduation May 2022

- Bachelor of Science in Computer Science
- GPA: 3.12/4
- Coursework: Software Engineering, Analysis of Algorithms, Computer System Concepts, File and Data Structures, Principles of Programming Languages, Calculus 3

SKILLS

Languages: Java, C, C++, JavaScript, HTML, SCSS/CSS, SQL

Tools: Tailwind, React, React Native, Expo, Spring, VS Code, Git, Github, Firebase, MariaDB, MongoDB, MS SQL Server

Methodologies: TDD, MVC, Agile, Scrum

Operating Systems: MacOS, Windows, Ubuntu, Kali, iOS, Android

PROFESSIONAL EXPERIENCE

Software Developer – West Virginia University

October 2020 – Present

- Gathered requirements/specification on website/application design and implementation from customers
- Created and translated wireframes/mockups into fully realized web/phone applications
- Collaborated with other team members on domain of websites/applications

Software Engineer Intern – MicroGenesis, Startup

February 2020 – April 2020

- Developed software that allowed an Arduino module to communicate with a transponder
- Reconfigured and debugged a MS SQL Server to allow it to correctly generate relationship diagrams
- Developed static HTML pages using HTML, Bootstrap, and JavaScript

PROJECTS

Database Management System

Spring 2019

- Developed a Relational Database Management System in Java
- Implemented a way to export and import XML, and JSON files back and forth in/out of the database
- Created a custom hashing function that used quadratic probing to solve the problem of collisions
- Transitioned the DBMS to be persistent by translating data stored into a binary file stored on the local machine

Pizza Website June 2020

- Web application for a fictional pizza restaurant, using JavaScript, SCSS, and the Leaflet API
- Using a React-like approach, created JS component classes that would render upon clicking a button on the website

Hospital Requisition App

January 2021

- Phone application for use in a Hospital to improve pre-operation setup
- MERN stack for development using MongoDB, Express, React Native, Node, and Firebase Auth for authentication

ACTIVITES

CyberWVU - Member

November 2020 - Present

- Participated in MACCDC 2021 as a competitor
- National Cyber League 2021 Spring competitor