Jonathan Malcomb

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EDUCATION

WEST VIRGINIA UNIVERSITY, Morgantown, WV   *December 2021 – Exp Graduation*
- Bachelor of Science in Computer Science

REVELANT COURSE WORK

Software Engineering | Analysis of Algorithms | Computer System Concepts | File and Data Structures | Calculus 3

PROJECTS

Database Management System   *Spring 2019*
- Developed a Relational Database Management System in Java without the use of any frameworks
- Implement a way to export and import XML, and JSON files back and forth into the database
- Created a custom hashing function that used quadratic probing to solve the problem of open addressing
- Later transitioned the DBM to be persistent by translating data stored into a binary file stored on the computer

Garden Planner   *Fall 2019*
- Web application that allows the user to create a custom garden, and order seeds
- Following a Scrum approach, fully documented with an SRS, and UML diagrams
- Conducted requirement gatherings, client reviews, as well as end-to-end testing

Mario's Pizza Website   *June 2020*
- Web application for a fictional pizza restaurant
- Created using vanilla JS, SCSS, and Leaflet
- Using a React-like approach, created JS component classes that would render upon clicking on button on the website

SKILLS

Databases: MongoDB, MariaDB, Microsoft SQL Server, Firebase. MySQL
Technologies: Git/Github, Bash
Programming: C/C++, Java, VHDL, JavaScript, PHP
Frameworks: React, Angular, Spring
Web Development: HTML, CSS, SCSS, Webpack, Apache
Communication: Lead presentations in front of a large group, SRS and additional documentation for applications, UML
Operating System: Linux, MacOS, Windows, iOS

HONORS

West Virginia Promise Scholar   *August 2016 - Present*
- Merit-based scholarship awarded to West Virginia residents