

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
- Implemented 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 collisions
- Later transitioned the DBMS 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 (<https://github.com/Voomkin/Restaurant-Page>)

June 2020

- Web application for a fictional pizza restaurant, using vanilla JS, SCSS, and Leaflet
- Consumed the Leaflet API to display an interactive map on the website for the location of the restaurant
- Using a React-like approach, created JS component classes that would render upon clicking on a button on the website

SKILLS

Databases: MongoDB, MariaDB, Microsoft SQL Server, Firebase, MySQL

Technologies: Git/Github, Bash, Visual Studio Code, JetBrains IDEs

Programming: C/C++, Java, JavaScript

Frameworks: React, Spring, Bootstrap

Web Development: HTML, CSS, SCSS

Communication: Lead presentations in front of a large group, designed 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