DUSTIN MURDOCK
SOFTWARE DEVELOPER

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ABOUT ME

As a former medical laboratory scientist. I became interested in software development after being part of the team to develop a new laboratory information system. The problem solving and trouble shooting aspects appeal to me and the ability to create something through coding is very rewarding.

PROJECTS

Podist- React
Podcasts can be used not only for entertainment but for learning and keeping up with current events. This is a web application to help with finding, organizing, and sharing podcasts. It is a fully functional CRUD React application that uses Material UI for styling and React Router for routing. It has multiple users and allows those users to search for new podcasts utilizing an external API and then allows the user to save those podcasts and create unique lists with them. The application also uses JSON-Server to store data about the user lists and saved podcasts. Users can edit the lists and add or remove the podcasts on the lists as well as delete the lists altogether.
https://github.com/MurdockDM/Podist

Nutshell- JavaScript Group Project
This was a group project for Nashville Software School using Javascript, dbdiagram.io for Entity Relationship Diagram planning, http-server, json-server to access a custom API JSON database. This was invaluable in learning development as a team effort using tools such as git and GitHub for collaboration.
https://your-nutshell.netlify.app/
https://github.com/MurdockDM/Nutshell--Javascript-Group-Project

EDUCATION

Nashville Software School
Full Stack Software Developer -2020

University of Tennessee
BS -Biochemistry, Cellular, and Molecular Biology

PROFESSIONAL EXPERIENCE

Full-Stack Software Developer
Nashville Software School - *A rigorous six month software development bootcamp* | 2020 - Present
- Built modern browser applications using HTML, CSS, JavaScript, React, and Material UI while learning in both team-based and individual capacities.
- Built various programs using Python such as a command line interface application.
- Created full stack web applications using Django for Python as well as a Django REST API using Django Rest Framework with a client-facing React application.
- Used industry standard tooling such as Git and GitHub for version control and Visual Studio Code
- Built and deployed class website as part of a team with other members of the cohort.
- Voted by classmates to receive Tomb Raider award for being best at "reading documentation and finding cool tricks and pearls of wisdom" which I shared with my classmates.

Special Analyst-Molecular Diagnostics
MyGenetx - *An advanced healthcare molecular laboratory focusing on clinical precision medicine.* | 2018-2019
- Performed cutting edge testing such as Pharmacogenetic testing and analysis using PCR, Next Generation Sequencing, and Copy Number Analysis
- Interacted with other healthcare professionals to assist them in choosing proper test regimes as needed for patient care.
- Troubleshooting of lab issues using known procedures created new workarounds if necessary

Molecular Diagnostics Technologist
PathGroup- *a medical laboratory that offers comprehensive anatomic, clinical and molecular pathology services.* | 2017-2016
- Managed multiple molecular testing regimes for the Hologic Panther system while managing 7 independent machines that performed 6 different molecular tests at rates over 300 tests per hour or machines running 1500 tests in a 3 hour period
- Revised test preparation process to check proper batching of most urgent patient tests. This changed the step from a 2 person hour long process to a 15 minute process performed by 1 person and ensured turn-around-times were met or exceeded.
- Managed the testing for Cobas 8800 as part of FDA clinical trials team for a new testing regime and liaisoned with multiple teams to coordinate logistics and remedy issues.

Cytogenetics Technologist II
Genetics Associates Inc- *a medical cytogenetics laboratory that provides a full range of clinical cytogenetic and molecular services to private physicians, hospitals & laboratories* | 2012 -2017
- Completed complex cytogenetic testing for oncology cases using esoteric testing methods as well as newborn genetic testing.
- Worked with other healthcare providers to guide direction and methods of testing
- Worked first as subject matter expert then as an internal product owner for development of new laboratory information software. Made sure all department needs were met while working to stay within timetable for project launch while working with external software developers.
- Also worked to train majority of laboratory personnel in new software so that transition between older software system and new system was seamless