River Marks

☎ 570-620-8150 ⊠rmarks6767@gmail.com **()** https://github.com/rmarks6767

OBJECTIVE

Seeking a Co-op for the 2020 spring and/or summer in Software Development.

SKILLS

C#, .NetCore, GraphQL, GraphQL .Net, Python, NodeJS, Git, GitHub, JavaScript, Markdown, C

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY – 3.66 GPA

B.S. in Computer Science 2018 – 2023 (Expected)

ORGANIZATIONS

COMPUTER SCIENCE HOUSE

Member August 2018 – Present Computer Science House is an organization that has given me the grounds to do projects and gain the technical skills that I would not have gotten otherwise.

BOY SCOUTS OF AMERICA

Achieved Eagle Scout
My Eagle Scout Project
including designing &placing
signage along a 5K trial in the
West End Regional Park. It also
included creating three
benches &placing those along
the trail as well.

FUTURE BUSINESS LEADERS OF AMERICA

Three-time state level competitor
Competed in Business
Communications for two years
&competed in Computer
Problem Solving for the final
year at the competition.

EXPERIENCE

SOFTWARE ENGINEERING INTERN • THORLABS

May 2019 – August 2019

- \bullet Developed a POC for utilizing GraphQL & C# .Net Core to interface with Cosmos DB
- Developed a method of translating GraphQL requests into SQL queries dynamically
 - Developed algorithms for filtering data dynamically
 - Translated the existing REST defined model into GraphQL
 - Load tested the written parts of API using Locust.IO & python
 - Created unit tests for all of the GraphQL related API pieces

PROJECTS

PROJECT LOREMASTER • NodeJS, MySQL, GraphQL • September 2019 - Present

- Connection established between MySQL & NodeJS Server
- Implemented 2D array used for filtering data from server
- Working towards establishing a schema for querying
- Determining structure for data to be stored in the MySQL DB

FUTURISTIC CAR MUSIC SYSTEM • JavaScript • February 2019 – June 2019

- Connecting to Spotify API by using a RESTful API
- Voice inputs passed to this through query requests
- Plays songs from Spotify through connected speakers

SPACE PIRATES • C# & MonoGame • January 2019 – April 2019

- Created a dynamically generated dungeon drawing system using the a* path finding algorithm
- Using the same algorithm, established enemy path finding
- Created a map to display the rooms that have been entered
- Managed the teams work and delegated work to other members

BREAKWATER GAME ENGINE • C# • January 2019 – March 2019

- Team project that uses the MonoGame Graphics Library
- Implemented Pathfinding for enemy AI based on 2D 'Node' grid
- Implemented Quad Tree for collision checking in the world

CONSOLE SIDE SCROLLER • C++ • December 2018

- A game that utilizes pointers & classes to update console window
- Compared the different methods of printing data from memory
- Looking for the most efficient way to display on console window

CONCORIA • GML • September 2018 – December 2018

- Worked with another student to create an open world game
- Created a template to build any size house that players may walk into & interact with top instance that fades out
- Created a method of storing & saving all instances on screen
- Instituted the merge sort algorithm into the saving to make the loading of the instances saved faster