RYAN GILLESPIE

Software Developer

✓ rjgillespie@wisc.edu

J 414-378-9270

Ryan-Gillespie

EDUCATION

BS Computer Science UW Madison

iii December 2021

GPA (4.0 scale): 3.2

SKILLS

Python

Java

JavaScript

Typescript

SQL / MySQL / SQLite

C

C++

C#

React

RESTful APIs

GraphQL APIs

Volunteer Work

Camp Counselor | Camp Invention

Assisted teachers and Elementary School-aged students in their STEM activities including constructing catapults and disassembling microphones.

WORK EXPERIENCE

Varsity Tutors | Computer Science Tutor

- may 2021 current
- Online
- Tutored high school and graduate level students in various languages such as Java, Python, and C
- Assisted in the Data aggregation phase of an Academic Machine Learning project using the Academic version of the Twitter API
- Maintained a 5-star review score across all students

UW-Madison HSLC | Student AV Support Desk

- iii September 2018 current Madison, WI
 - Maintained positive customer relationships by answering technical support questions relating to lecture and meeting hall equipment
 - Kept accurate inventory of AV equipment for 7 lecture halls and 30 meeting rooms

Wiens Family | Childcare Aide

- 🛗 January 2021 May 2021 👂 Cross Plaines, WI
 - Kept two elementary school students on track of their assignments for online classes.
 - Both Students were facing delays before

PROJECTS

Pathfinding Algorithm Visualizer | Python

- Utilizes Pygame to power an intuitive UI that displays pathfinding algorithms simply and visually for the user
- Supports Popular Algorithms such as Dijkstra's, A*, Greedy Best First Search, as well as Depth and Breadth First Search

Planetary Orbit Simulator | Java / JavaFX

- Simulates and displays the orbital paths of most major orbiting bodies in our solar system in 3D without a rendering engine
- Allows the user to switch focus between planetary bodies and correctly displays relative positions to other orbiting bodies
- Utilizes JavaFX to graph the solar system and other UI elements in real time

Search Bar Backend | Java / Spring MVC

- Uses the Java Spring framework to implement a REST API that returns all
 possible words from a database of similar words with the MVC model
- Implements a simple and user-friendly graphical interface on top of the REST API
- Uses SQL to query a relational database to get results to display to the user

Hassle Project Manager | JavaScript / React

- Aids in the organization of project tasks by organizing tasks into categories such as "To-do" and "In Progress"
- Uses React to build the front-end interface in the format of a Single Page Application