





Kai Hokanson

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EDUCATION

Tompkins Cortland Community College (TC3)

A.S. Computer Science

Manlius Pebble Hill School

Present

Expected - Spring 2025

June 2021

COURSEWORK

Courses: Object-Oriented Programming, Data Structures & Algorithms, Discrete Math, Calculus, Physics, Statistics

SKILLS

Languages: Python, Java, C++, SQL

Tools: Git/GitHub, VS Code

General: Relational Databases, Unit Testing, Spreadsheets

PROJECTS

FaB Price Tracker | *Python, PyQt6, PostgreSQL, Matplotlib, API, Git, VS Code*

April. 2024

- Developed a Python application for tracking prices of trading cards from the FaB (Flesh and Blood) card game.
- Utilized PyQt6 for the graphical user interface (GUI), allowing users to input card details and visualize price data.
- Integrated PostgreSQL database to store card, set, and price information.
- Implemented Matplotlib for generating price trend graphs based on user input.

Forest Fire Cellular Automata | *Java, Java Swing, Git, VS Code*

March. 2024

- Developed a Java application for simulating forest fires using cellular automata.
- Utilized Java Swing for the GUI, enabling users to interact with the simulation grid and observe fire propagation.
- Designed the simulation to incorporate probabilities of fire spread based on neighboring cells and introduced the concept of wind to influence fire direction and spread probabilities.

EXPERIENCE

TC3 Student Government Association | *Vice President of Finance*

Sept. 2022 – Present

- Manage the SGA budget
- Lead a committee to review and approve club funding proposals
- Help plan and organize SGA-hosted/sponsored events

TC3 Baker Center | *Tutor/Peer Assistant Leader*

Sept. 2022 – 2023

- Tutored students in math and computer science
- Developed lessons and assisted professor for Computer Science I (CSCI 160) course

GIS Intern at City of Ithaca Geographical Information Systems Department |

Summer 2023

- Utilized ArcGIS Online mapping and form creation tools to collect and manage sidewalk ramp data throughout the city.
- Built and designed an ArcGIS Story map of the city's sidewalk improvement program.

Trail Crew Worker/Camp Counselor at Lime Hollow Nature Center |

Summers 2018 – 2022

- Progressed from volunteer to assistant leader in Trail Crew, demonstrating leadership and teamwork skills.
- Managed staff and supervised trail maintenance projects, ensuring high-quality work.
- Contributed to construction projects including culverts, retaining walls, and wheelchair-accessible trails.
- Coordinated with counselors to facilitate safe and engaging activities for campers.
- Ensured adherence to camp policies and maintained positive colleague relationships.

HOBBIES

Trading Card Games: Magic the Gathering, Flesh and Blood
Traveling