Michael Fehrer

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Binghamton University, State University of New York, Watson School of Engineering

Bachelor of Science in Computer Science

Expected Spring 2025

Broome Community College, State University of New York

Completed 35 credits toward Associate's Degree in Computer Science

Cumulative GPA: 4.00/4.00 | President's List: All Semesters

Fall 2021-Spring 2022

Related Courses

EDUCATION

- Programming with Objects and Data Structures
- Programming and Hardware Fundamentals

TECHNICAL SKILLS

Programming Languages: Python, Javascript and Typescript, HTML/CSS, Java, C++, SQL

Web Frameworks: React, Express, Vue.js, Flask

Other Skills: Git/GitHub, Node is, REST APIs, MongoDB, JWT, Docker, Linux, 90 WPM Typing Speed

PROJECT EXPERIENCE

Forum Website - MERN Stack

• React-router for rendering unique pages

- Backend server manages data transfer using a REST API
- Integrates MongoDB database with ORM on server
- User authentication with JWT

Tower Defense Game - React with Typescript

- Designed and developed system for handling actions and events
- Incorporates game logic with UI built in react
- Dynamic map stores and updates tiles corresponding to specific classes

2D Shooter Game - Pygame Engine with Python

- Uses hierarchy of classes implemented with OOP for entities in the game
- Implements trigonometric functions for bullet trajectories
- Custom AI for enemies

Maze Game - Pygame Engine with Python

- Contains a simple user interface, custom levels, and a level editor
- Files formatted in JSON are parsed as level maps

INVOLVEMENT

Binghamton Association of Computing Machinery - Presentations dedicated to specific data structures and algorithms

HackBU - Workshops related to learning about programming

Binghamton University Video Game Association - Events and tournaments involving video games

VOLUNTEER EXPERIENCE

Immaculate Conception Church, Greene NY

July 2018-March 2020

- Helped and volunteered for various local communities
- Included yard work, cleaning, moving equipment, and community service

ADDITIONAL INFORMATION

• High School Class Ranked 19 of 128 with GPA 3.87/4.00

Spring 2021

• Frank G. Paul Medal of Excellence in Mathematics and Science

Spring 2021