

# Ellys Gorodisch

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## Skills

**Technical:** Unreal 5, Unity, C/C++, Java, JavaScript, ReactJS, Amazon Web Services

## Education

**Worcester Polytechnic Institute (WPI), Worcester, MA**

May 2025

Interactive Media and Game Development, B.S. & Computer Science, B.S., GPA: 4.00/4.00

## Projects

**Cozy Coast**, <https://sites.google.com/view/cozy-coast/>, Technical Game Development II

April 2024

- Created a cozy fishing game set on a tropical island in Unreal Engine 5 on a seven-person team
- Created a spline path system for controlling fish movements with various path shapes
- Gave different movement patterns to different fish by manipulating speed
- Created a diving mechanic with a quick time event for determining fish catching

**Dragonfly Game Engine and *Your Music is Trash***, Technical Game Development I

February 2023

- Recreated a video game engine with C++ and created an original video game within that engine on a two-person team
- Used SFML for ASCII art rendering for the Dragonfly engine
- *Your Music is Trash* is a rhythm game where you press arrows with the beat as they fall from the top of the screen

**CampusConnect**, <https://campus-connect-9c83.onrender.com/>, Webware

April 2024

- Created an online bulletin board and messaging application using JavaScript on a four-person team
- Users have the ability to post public events and add events to their personal calendar
- Users can filter their personal calendar by month, year, and day
- Users also have the ability to join a live chat where they can talk with other users

**AlphaJoust**, Introduction to Artificial Intelligence

October 2024

- Trained a genetic algorithm to play the arcade game *Joust* on a five-person team
- Used the NEAT algorithm to train a model with inputs of player position and enemy positions

**Seats4U**, Software Engineering

December 2023

- Created an online venue managing and ticket purchasing application using JavaScript and ReactJS on a three-person team
- Users have the ability to create venues and shows, and consumers could purchase tickets for active shows
- Achieved online functionality through a MySQL database and AWS Lambda, API Gateway, RDS, and S3

## Experience

**WPI Math Department**, Worcester, MA

January 2022 — Present

Office Assistant for Professor Mayer Humi

**Green Leaf Pet Resort**, Ocean, NJ

June 2022 — August 2022, May 2023 — August 2023

Hotel Employee