

# JOHN HEIDEN

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## OBJECTIVE

Seeking a Game Design or Software Engineering co-op using strong programming skills in C#. Available May 2021 – August 2021.

## EDUCATION & CERTIFICATIONS

Rochester Institute of Technology – Rochester, NY Expected Graduation: May 2023  
Game Design & Development, BS | GPA: 3.77

Robotics & Pre-Engineering Certification Spring 2017

- ❖ Certified by the Robotics Engineering & Competition Foundation
- ❖ Achieved certifications in Engineering Fundamentals, Programming, Electrical Engineering and Mechanical Engineering

## SKILLS

Technology & Language Current

- ❖ **Programming Languages:** Java, Python and C#
- ❖ **Operating Systems:** Apple and Windows platforms
- ❖ **Game Engines:** Unity
- ❖ **Developing Tools:** Visual Studio 2019, Eclipse, Visual Studio Code
- ❖ **Spoken Languages:** Intermediate Spanish speaker

## PROJECTS

Tower Defense Game, Class Project Spring 2020

- ❖ Collaborated with a team of four to design and build a video game for a final project using C# in MonoGame for Visual Studio.
- ❖ Became more comfortable with version control by collaborating with multiple developers on one GitHub project.
- ❖ Programmed a pathfinding algorithm for an AI to use when following a predetermined path.
- ❖ Programmed a ray casting algorithm that tracks AI passing through a specified area with various targeting priorities.

## PROFESSIONAL EXPERIENCE

Code in Place – Stanford University (Virtual) April 2020 – May 2020

### Section Leader

Taught a modified version of Stanford University's CS-106A course to a class of students aged 18 and older.

- ❖ Instructed a class of students in a virtual setting.
- ❖ Gained real world teaching experience outside of 1 on 1 tutoring.
- ❖ Became more proficient in the core fundamentals of Python by teaching them.

Leading and Learning Tutor – Leading and Learning (Virtual) January 2020 – Present

### Tutor

Assist high school students in a variety of subjects over virtual platforms such as Skype or Zoom. Review course content with students and assist them with the areas they are struggling in.

- ❖ Adapted teaching style to work in a setting where I cannot interact with a student in person
- ❖ Communicate with parents, students, and the tutoring director to ensure the student is on track to succeed academically

HEOP Tutor – Rochester Institute of Technology, Rochester, NY November 2019 – Present

### Mathematics Tutor

Assist college students in their math courses to prepare them for exams and future applications of the content they learn. Help students develop better study techniques so they can be successful on their own in the future.

- ❖ Succeeded in helping students raise test grades by an average of 20-30%
- ❖ Adapted teaching style to accommodate different students
- ❖ Teach in a manner that engages students and enhances their overall interest in mathematics as a whole