

# Ryan Walters

Software Engineer

 [ryanchwalters@gmail.com](mailto:ryanchwalters@gmail.com)  [github.com/Xevion](https://github.com/Xevion)

## EDUCATION

2021 - 2025 **The University of Texas at San Antonio**  
*Computer Programming II, RowdyCreators  
ACM ICPC Local Competition 2nd Place*

2017 - 2021 **The Woodlands Highschool**  
*3.8 GPA, 1380 SAT, AP Computer Science - 5*

## LEADERSHIP

August 2020 - Now **First Tech Competition - Team 16911**

- Lead programming of team's robot, website and testing tools
- Developed manual control systems
- Worked with second programmer to create autonomous continuous path following systems

## ACTIVITIES


August 2020 - Now **Robotics Club** *Lead Programmer* 8hrs/week 36wks/year

- Programmed robot's drivetrain, launcher and wobble goal arm.
- Worked with drive team to create easy & precise controls.
- Created autonomous driving instructions for precise and dynamic movement in autonomous environments.

September 2020 - Now **Gay-Straight Alliance** *Attendee* 1hr/week 36wks/year

- Attended and participated in GSA events & meetings

June 2018 - Now **Photography** *Photographer* 4hr/week 36wks/year

- Photograph and edit for applicable clubs & school activities
- Maintained a long-term portfolio website:  [rcw.photos](https://github.com/Xevion)
- Skilled in the craft from start to end, to camera, to editing, to organizing thousands of photos on a limited student budget.

## HIGHLIGHTED PROJECTS *See more at [github.com/Xevion](https://github.com/Xevion)*

Aug 2019 **Phototag** [github.com/Xevion/phototag](https://github.com/Xevion/phototag)

- Python-based commandline tool for automatically tagging photos with labels of the photo's contents via Google Vision API.

May 2020 **Boids** [github.com/Xevion/Boids](https://github.com/Xevion/Boids)

- Unity C# based simulation project showcasing the computed flocking algorithm known as "Boids", developed by *Craig Reynolds*.
- High performance algorithm allows up to 750+ boids with zero issues
- Entirely Custom UI with easing animation

Jan 2021 **TCP Chat** [github.com/Xevion/tcp-chat](https://github.com/Xevion/tcp-chat)

- Fully custom server and client chatting tool using TCP Sockets in Python.
- Advanced UI built in PyQt5; a wrapper of the Qt GUI toolkit.
- Messages cached & stored in local SQLite database.

## SKILLS

Python Java C# C SQL HTML/CSS/JS Sass Docker Unity Vue.js Photography  
Bash Algorithms

DevOps Full Stack Development Problem-solving Skills Time Management