

# KYLE SCHOENER

STUDENT, RESEARCHER, TEACHING ASSISTANT, SWE

🌐 [kschoener.github.io/](https://kschoener.github.io/)  
📍 Buffalo, New York

in [kyle-schoener-906982106](#)  
🔗 [kschoener](#)

## About Me

I'm Kyle. I love the outdoors and exploring nature with my friends. I take videos and pictures as a hobby and upload them to the internet sometimes. I see programming as a hobby, rather than work.

## Education

**University at Buffalo**  
B.S. Computer Science 2018

## Skills

**Proficient:** Java, Python, Git  
**Knowledgeable:** C/C++, HTML/CSS, Javascript, Android Dev

## Employment

**Amazon, Inc.** Seattle, Washington  
Software Development Engineer Intern

During the course of my internship at Amazon, I owned 2 projects. Both projects required my knowledge in Computer Science as well as soft-skills because it required me to work with many different people to move forward with these projects.

**University at Buffalo: Blue Research Group** Buffalo, New York  
Research Assistant

Profile: <https://blue.cse.buffalo.edu/people/kylescho/>

Project: <https://blue.cse.buffalo.edu/projects/jouler/>

Working on the Jouler project. Using machine learning to predict battery trends in android smartphones. The goal is to be proactive about energy consumption, ensuring the battery doesn't deplete before the user is expected to charge their device.

**University at Buffalo: CSE Department** Buffalo, New York  
Teaching Assistant

CSE 199: Introduction to the Internet, CSE 115: Introduction to Computer Science

My responsibilities include holding/aiding students in recitation and creating activities for the students to do in lectures and helping the students through these activities.

## Projects

**Action Sequence Generator** Dec 2017  
Given images with (relatively) the same background, this removes the background and stacks the images together to create an Action Sequence. [Click here](#) to see sample outputs.

**Javascript Audio Visualizer** Sep 2017  
Given a song or songs, the audio waveforms will be displayed to the user.

**Macro Skill** Jul 2017  
An Alexa skill created during Amazon's 8-hour Intern Hackathon. We built an AWS Lambda function that connects with an Alexa skill that we call 'Macro Skill'. When you ask Alexa 'What are the macros for <-serving size> of <food>?' it will tell you the macros (nutrition facts) for that food, and the specified serving size. We did this by using a massive nutrition database's API and Alexa's natural language processing in Python.

**Network Photo Album** Apr 2017  
I created the client and server to a LAN Photo Album and slideshow. When you run the python server script, it will look for pictures in a specific location on disk and display those images in a slideshow fashion. The slideshow will be updated whenever a user wants to send over pictures to the server. I use this on my TV in my room with my Raspberry Pi.

**Picsync** Nov 2016  
Picsync was made during UB Hacking 2016. It is a Python script that uses ffmpeg and raw audio data to sync up photo transitions with the beat of a song. The user inputs a bunch of pictures and a song, and Picsync will output an mp4 with the pictures synced with the beat of the given song!

**Perfect Toilet Time** Aug 2016  
Crowd sourced bathroom locator and review system. In select locations (ex. University at Buffalo's campus) the user may notify maintenance anonymously about an issue with a bathroom.