# berwin xie

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## education

university of illinois at urbana-champaign
b.s. computer science

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## experience

### qualtrics

summer 2016

built a new tab in the data analytics section of the research suite to weigh survey responses using iterative proportional fitting, primarily for use by market researchers. project was built using scala  play back-end with an angular front-end.

### epic systems

summer 2015

opened up epic earth, a social network for physicians, to be used for non-customers of epic's software suite. designed and developed a registration workflow, NPI lookup and validation, and file upload for resumes. built on the microsoft web stack.

### vodkin laboratory

spring 2014-present

managing all the data for Dr. Lila Vodkin of the University of Illinois for soybean research and writing scripts to process all the raw data from the sequencing machines. primarily written in python and bash.

## leadership and projects

### sigmusic chair

run a computer science club that focuses on creating music using technology. as chair, manages the members to build a project each year for engineering open house, a student-led event focused on exhibits to get the youth excited about STEM fields.

#### > kinect boids

a simulation using the microsoft kinect v2 to generate guitar strings between participants' hands and geometric birds would use flocking mechanisms to fly around and pluck the string to create music

#### > tonal starfield

a whole room experience where users were presented with a hyperspeed type visualization and a mobile interface to draw or write anything they desire, which would then be hashed into a two-bar melody and shoot a comet and play the melody in the simulation.

### women in computer science tech team officer

building and running tutorial sessions for members of the women in computer science organization to learn more about different aspects of the field, targeted towards freshmen. sessions include how to use and create API's, building personal websites, git principles, and data visualizations

### engineering 100 engineering learning assistant

led a four week class for first semester freshmen in computer science, providing guidance for first weeks on campus. taught the students basic html for them to create a personal webpage and host a static page on github pages.