

BERWIN XIE

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EDUCATION

University of Illinois at Urbana-Champaign
B.S., Computer Science
3.65/4.0 Major GPA

May 2017

EXPERIENCE

Epic Systems – Software Development Intern

Summer 2015

- Opened up the borders of *Epic Earth*, a social network for customers, to any practicing physicians
- Designed and developed a registration workflow, file uploads for resumes, and NPI lookup using the Microsoft Stack: C#, ASP.NET MVC, and SQL Server

Edward Madigan Laboratory Vodka Lab – Software Engineer

Apr 2014 - Present

- Designed Python and bash scripts to automate the analysis of data obtained from Bowtie, Bowtie2, and DESeqs runs on soybean DNA and RNA sequences
- Visualize Bowtie2 data with Matplotlib for use in research papers

Chicago Chair and Stool Incorporated [eHemco] – Programmer

Summer 2013

- Built a shipment program pulling information from Amazon.com seller data and building shipping labels for UPS which reduced data entry time from over 4 hours to under 10 minutes

LEADERSHIP AND PROJECTS

ENG100 Engineering Learning Assistant

Apr 2015 - Present

- Lead a class of freshmen in computer science about engineering at UIUC

SIGMusic Chair

Apr 2015 - Present

- Organize and lead the Special Interest Group (SIG) in designing and creating a project each year from the ground up

HackIllinois 2015

- Organized external operations including food, transportation, and hospitality for all the participants

OculusScooter

- Coded and built a Oculus Rift project that simulates using a kick-scooter with a device made from PVC, a roller-skate, photo-sensors, and a Spark Core

Tonal Starfield

- Created a massively collaborative web interfaced starfield simulation using threejs, socket.io, HTML5, Chuck, and OSC

Leap Music – 2nd place in the *Just for Fun* category

- Worked with a Leap Motion controller to create a Human Computer Interaction demonstration using Python, PureData, Arduinos, and LED lamps to dynamically generate tunes

pyDex – Top 10 Honors at WildHacks

- Streamlined solution for looking up Python definitions in Google Chrome

SKILLS

Python, Javascript, C#, ASP.net MVC, Unix-based Systems, SQL, C, C++, Mathematica