Alec Waichunas

(630)776-0939 │ awaichunas@gmail.com │ github.com/AlecWaichunas

Education

Southern Illinois University – Carbondale   Expected May 2020
   B.S. in Computer Science

Experience

Aisin Electronics, **IoT Intern**   July 2018 – Present

Developed VB scripts in Wonderware industrial software suite to manage and display data from factory assembly lines.

Used Python to analyze the accuracy of automated collected data to manual written data.

Developed a Node Server, using Express framework and Google Charts, to generate and display machine fault data from 11 assembly lines within seconds, saving 15 hours of manual labor a week.

Installed 22 Raspberry Pis to gather temperature and humidity readings around the plant and to display line side assembly line data. Then created a Bash script to automate updates through Git on a boot routine.

Southern Illinois University, **Undergraduate Researcher**   Nov. 2016 – Aug. 2018

Gathered comments and file revisions on code reviews by using Gerrit's REST API and migrated data into a SQL database.

Developed a Java application that traversed code files to detect which code review comments triggered a change in future revisions of the file.

Created and presented a research poster in the annual undergraduate research forum at Southern Illinois University.

Southern Illinois University, **School of Law IT Intern**   Jan. 2018 – Aug. 2018

Added, removed and managed users/computers in windows active directory and domain.

Created and managed tickets using Cherwell to keep a history of past, current and future tech support occasions.

Provided technical help to faculty and students including network troubleshooting, software, and hardware support.

Projects
(On GitHub)

PDF Book Finder
   A Java application that uses Google's Custom Search API to find PDF books.

Clask.io
   Worked with a team of 3 to build an educational Q&A website using Django and Bootstrap. Features included login and CRUD functionality.

Play That Song
   A web application, built with Python Flask, that used a web speech and tswift APIs to determine the lyrics of a song then play the music video through YouTube.

Technologies

Languages: Java, JavaScript, Python, SQL, Bash, C, VB, Lua
Technologies: Node.js, REST, Git, Firebase, Android Development, MQTT
Web: Django, Polymer, HTML, CSS, JSON, XML
Operating Systems: Linux, Windows, Windows Server 2016

Leadership

ACM@SIU   Fall 2017 – Present

Advanced in leadership from member → secretary → vice chair → chair.

Collaborated with fellow officers to create workshops over the semester to present to members of our chapter.