AARON J. BOYD

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EDUCATION

UNIVERSITY OF CINCINNATI COLLEGE OF ENGINEERING AND APPLIED SCIENCE — Cincinnati, OH
Computer Science — Class of 2022
GPA 3.979

SKILLS

LANGUAGES: Java, C/C++, BASIC, Python, MATLAB, JavaScript, PHP, HTML, mySQL, TypeScript, Bash
TOOLS: GHIDRA, Bootstrap, Qt, Angular, Bash Bunny
OPERATING SYSTEMS: Windows, Mac, Linux
GITHUB: https://github.com/aaron-boyd

EXPERIENCE

NORTHROP GRUMMAN CORPORATION - XETRON | Software Engineer Co-op — Fairfield, Ohio
- Experience working with government software contracts — Fall 2018, Summer 2019

THE CINCINNATI INSURANCE COMPANIES | Developer Intern — Fairfield, Ohio
- Rewrote a web-app to incorporate Angular and Bootstrap while making Java code more efficient — May 2018–Aug 2018
- Took part in companywide "Code Jam" using Amazon Web Services and incorporating business ideas
- Participated in semester long intern project to streamline the underwriting process using Blockchain
- Presented Blockchain solution to over 50+ managers and executives

PROJECTS

BINARY DATA VISUALIZER | Developer — Apr 2019–Present

Overview

- Facilitates in malware analysis and reverse engineering
- Takes any form of data and visualizes it in four different ways

Tools

- Languages: Python
- OpenGL, Qt

"SOL" - LED SUNRISE ALARM | Developer/Engineer — Aug 2017–Sep 2017

Overview

- RGBW LED strip integrated into a lamp that functions as a user controlled multi-colored lamp
- Lamp functions as an alarm clock that simulates sunrise in the morning for even the deepest sleeper
- Raspberry Pi running a Java application communicating via serial communication to an Arduino which controls the LED strip

Tools

- Languages: Java, C++

MULTIPLAYER BATTLESHIP NETWORK GAME | Server-Side Developer — Apr 2017–May 2017

Overview

- Raspberry Pi running a Python script as a server that allows multiplayer Battleship
- Utilizes socket communication to send data through local network

Tools

- Languages: Java, Python

AFFILIATIONS AND PHILANTHROPY

UC CUBECATS CATiSE PROGRAM | Software and Payload team lead — Aug 2017 - Present
- Project Snowshoe: use a high-altitude balloon to test the lethality of atmospheric conditions for Carl, the house-flying protagonist of Pixar's production *Up*
- Software and Payload: engineer a sensor suite using a Raspberry Pi to pull in atmospheric data from sensors and transmit data through the Automatic Packet Reporting System throughout flight

CYBER@UC | Lab Head — Apr 2019 – Present
- Responsible for putting on cyber related learning activities for other members

BEARCAT CODERS | Volunteer — Feb 2019 – Apr 2019
- Help students with Python related class projects
- Concepts: debugging, object-oriented programming, data manipulation