

AARON J. BOYD  
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## EDUCATION

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UNIVERSITY OF CINCINNATI COLLEGE OF ENGINEERING AND APPLIED SCIENCE  
*Computer Science*  
GPA 3.949

Cincinnati, OH  
Class of 2022

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## SKILLS

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LANGUAGES: Python, C/C++, Java, JavaScript, PHP, HTML, MySQL, TypeScript, Bash, MATLAB  
TOOLS: GHIDRA, Django REST Framework, Bootstrap, Qt, Angular, Bash Bunny  
OPERATING SYSTEMS: Linux, Windows  
WEBSITE: aaron-boyd.github.io

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## EXPERIENCE

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NORTHROP GRUMMAN CORPORATION - XETRON | Software Engineer Co-op Fairfield, Ohio  
• Experience working with government software contracts Fall 2018, Summer 2019, Spring 2020, Fall 2020

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

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## PROJECTS

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RANGE-MASTER | Developer June 2019–Present  
Overview

- Virtual machine deployment framework that communicates over SSH
- Lightweight tools allow increased scalability

### Tools

- Python, Libvirt, QEMU/KVM

BREAKDOWN | Developer May 2020–Aug 2020  
Overview

- Django REST API for automated malware analysis
- Perform preliminary and routine static analysis (Binwalk, YARA rules, PE/ELF analysis, etc.)
- Export results to JSON, Markdown, and PDF for further reporting or analysis

### Tools

- Python, Django REST Framework, Celery

BINARY DATA VISUALIZER | Developer Apr 2019–May 2019  
Overview

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

### Tools

- Python, OpenGL, Qt

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## AFFILIATIONS AND PHILANTHROPY

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CYBER@UC | President, Head of Lab, Head of Content Apr 2019 – Present  
• Responsible for managing cyber research lab and its servers  
• Give weekly presentations to members on cyber related topics

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

UC CUBECATS CATISE PROGRAM | Software and Payload team lead Aug 2017 – Jan 2019  
• 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