Zachary Hart

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OBJECTIVE

Seeking a co-op in software engineering for the Summer of 2019.

EDUCATION

Rochester Institute of Technology - Rochester, NY   August 2015 - Present
- Major: B.S. Computer Science
- Expected graduation: June 2020 (5-year program)
- Relevant Coursework: Data Structures & Algorithms, Mechanics of Programming, Intro to Software Engineering, Concepts of Computer Systems, Concepts of Parallel and Distributed Systems, Programming Language Concepts, Principles of Data Management

TECHNICAL SKILLS

Languages Python, C, Rust, Java, MIPS Assembly
Frameworks & Libraries Flask, Django, Requests, Pytest
Operating Systems Linux (CentOS/RHEL/Fedora, Debian/Ubuntu), Windows, macOS Sierra
Technical Interests 6502 Assembly, General Digital Electronics, Hardware Prototyping, Home Automation

WORK EXPERIENCE

Syncurity   https://syncurity.net
Integrations Engineer   July 2017 - Present

Collaborated with a remote team in a small and fast-paced startup environment to integrate third party APIs and services into our product using **Python**. Wrote integrations that have been certified by leading companies in the security space (**McAfee**, **Splunk**), and participated in partner programs with many more. Started development on a new integrations framework/**RESTful API** using **Flask**, **RabbitMQ**, **Vault**, and other technologies for job dispatching and management. Gained experience in working with a team of engineers and security analysts both within the company and as clients, remote and on-site, to understand the needs of our users.

PROJECTS

Pourover   https://github.com/zthart/pourover
A **Python** library for parsing and manipulating CEF messages and log files - used in production in an enterprise environment, and available on pypi.

CSH Lounge Automation   https://github.com/zthart/csh-automation
Aggregates control of consumer devices such as A/V receivers, projectors, and lighting control and implements **X10 Automation**, **HDMI-CEC**, and serial communications to interface with the devices. Exposes a RESTful API in order to allow control from any internet enabled device.

CSH Compute Cluster   https://github.com/zthart/csh-slurmguide
Setup and Management of a small computing cluster created for members of the Computer Science House at RIT. Allows for users to submit jobs to be run and managed using **SLURM Workload Manager**.

Huffman Lite   https://github.com/zthart/huffman-lite
Written in **C**, Huffman Lite is a huffman-like encoding and compression algorithm. Utilizing a tree structure similar to a huffman tree, Huffman Lite can encode and decode both human readible files and binary files.

EXTRACURRICULAR

CSH (Computer Science House)   http://www.csh.rit.edu/
House Improvements Director   August 2016 - June 2017
Drink Administrator   March 2016 - Present
Member   August 2015 - Present

Computer Science House, or CSH, is a group of technically-minded students at the Rochester Institute of Technology that all share a goal of learning and creating through collaboration. Members past and present have been responsible for creating many projects that have seen success at RIT, as well as in the public space.