Zachary Hart

Contact Information

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Objective

Seeking a full time position in **Software Engineering** beginning Spring 2020.

Education

Rochester Institute of Technology - Rochester, NY — August 2015 - Present

- Major: B.S. Computer Science
- Expected graduation: May 2020 (5-year program)

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**, **Cisco**, **ServiceNow**), 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** leveraging **Python** and **Flask** 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
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.

Technical Skills

Languages Python, C, C#, Java
Frameworks, Libraries, & Tools Flask, Django, Requests, Pytest, SQL, MongoDB, OpenGL
Operating Systems Linux (CentOS/RHEL/Fedora, Debian/Ubuntu), Windows, macOS

Extracurricular

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