

# Zachary Hart

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## CONTACT INFORMATION

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github.com/zthart

## 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, 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**

Integrations Engineer

<https://syncurity.net>

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 industry (**McAfee**, **Splunk**), and participated in partner programs with many more. 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. Worked directly under the CSO and former CEO.

## PROJECTS

**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. The devices are exposed to web requests via **Python/Flask** application in order to allow control from any internet enabled device.

**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.

**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 readable files and binary files.

**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**.

## EXTRACURRICULAR

**CSH (Computer Science House)**

House Improvements Director

Drink Administrator

Member

<http://www.csh.r.it.edu/>

August 2016 - June 2017

March 2016 - Present

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.