

# Zachary Weeden

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## EDUCATION

### ROCHESTER INSTITUTE OF TECHNOLOGY

#### BS IN COMPUTER ENGINEERING TECHNOLOGY

May 2018 | Rochester, NY

Accolades: Dean's List Spring 2016

## LINKS

#### Personal Website:

<https://zweeden.dev>

#### Github:

<https://github.com/zweed4u>

#### LinkedIn:

<https://www.linkedin.com/in/zweeden>

## COURSEWORK

DC/AC Circuits • Microcontroller Systems  
Electronics • Object-Oriented Programming  
Digital Signal Processing • Data Structures  
Computational Problem Solving  
Computer Science Theory  
Digital Fundamentals & System Design  
Networking Technologies  
Hardware Description Language  
Embedded Systems Design I & II  
Real Time Operating Systems

## SKILLS

### PROGRAMMING/SCRIPTING

Python • Go • PHP • C • Bash  
C++ • Powershell • VHDL • Javascript

### IDES, SOFTWARE & FRAMEWORKS

PyCharm • PHPStorm • GoLand • Eclipse  
Visual Studio • Selenium • Flask • Django  
openQA • pytest • PHPUnit • Codeception  
mypy • pipenv • poetry • black • pydantic  
PyQt • Git • Gitlab Pipelines • Jenkins • Jira  
Docker • Kubernetes • Openstack • Packer  
virt-builder/libguestfs • Ansible • Vagrant  
prometheus/node\_exporter • KVM • libvirt  
ESX • Hyper-V • VSphere • Doxygen • OpenCV  
redis • Vivado • MultiSim • QSYS • ModelSim  
Linux • QNX Neutrino • ReportPortal • Swagger  
cloud/base-init • qTest • PostgreSQL

### EXTRACURRICULARS

Hack The Box Penetration Labs - [Profile link](#)  
Automating limited item online shopping experience  
2011 Varsity Baseball - RIT Tigers Men's  
Intercollegiate Varsity Baseball Team

## EXPERIENCE

### DATTO INC. • SOFTWARE ENGINEER

May 2018 - March 2020 (Full-Time) | Rochester, NY

- Sprinted as a software engineer on the BCDR Engineering Productivity team.
- Developed internal tools to ease manual testing efforts, reduce RC cycle time and provide developers & users with configurable environments.
- Developed test automation frameworks and respective automated tests for core products and other development teams.

June 2017 - January 2018 (QA Automation Infrastructure Intern - Co-op) | Rochester, NY

- Wrote automated tests utilizing a page-object model for UI and frontend testing
- Developed Django web app which interfaced with our Openstack cluster.
- Automated the process of creating sysprepped images to be used on Openstack

May 2016 - December 2016 (QA Engineer Intern - Co-op) | Norwalk, CT & Rochester, NY

- Led software development on a team with 2 other interns for LED alert/email system project
- Manually tested Sharepoint/Office365 integration with SaaS product, Backupify
- Utilized OpenQA (Perl + needles) and Laatu to automate Backupify testing
- Leveraged pytest to develop API validity tests and wrote wrappers around API endpoints for use in Core Products test framework

### SELF EMPLOYED • RESELLER/CONSULTANT

September 2011 - Present | Rochester, NY & Middleton, MA

- Automate online retailers' checkout process to ensure purchase of limited items which are sold for profit on eBay
- Assist others with successful purchases - organically amassed over 7000 followers on [social media](#) under a pseudonym where I offered free help/advice and information

## PROJECTS

### NANOSTACK | DATTO INC. SOFTWARE ENGINEER

October 2018 - March 2020 | Rochester, NY

- Built Go program, platform and infrastructure to supersede Openstack.
- Conceptualized and designed controller/compute node relationship and architecture
- Provided first class support for local disk storage, noVNC URLs without authentication over websocket, supported the ability to add disks to existing instances and allowed specific libvirt xml on a per instance basis
- Base images were built, sysprepped and uploaded to controller nodes

**Technology used:** Go, Libvirt, Postgres, Vagrant, Ansible, Packer, Virt-Builder, Cloudinit, Windows, Linux

### QAPI | DATTO INC. SOFTWARE ENGINEER

September 2017 - March 2020 | Rochester, NY

- Built Django application to serve as a user friendly interface to nanostack.
- Provided users with the ability to create and manage VMs for manual and automated testing

**Technology used:** Python, Django, Redis, Grafana, Swagger, Mypy, Black, Poetry, Pydantic, Docker, Kubernetes, Slack Webhooks, CI/CD pipelines

### AUTONOMOUS ROVER | RIT STUDENT, [GITHUB](#), [DEMO](#)

March 2018 - April 2018 | Rochester, NY

- Built and developed firmware, software and test benches for an autonomous rover
- Lead software engineer of 1st place winning autonomous maze traversal rover at [Imagine RIT 2018](#)
- Featured on [krktl](#), board manufacturer's, [blog](#)

**Hardware used:** [krktl](#) snickerdoodle, rover 5 chassis, 3x Ultra sonic sensors, 1x IMU

**Technology used:** VHDL, Vivado, Altera ModelSim, C, Python, PyQt, Flask, Matplotlib, OpenCV

### SUPREME | PERSONAL, [GITHUB](#)

March 2016 - Present | Rochester, NY

- Built Python script to automate purchase of limited items on Supreme NYC web shop
- Made use of iOS application's endpoints for speedier checkout

**Technology used:** Python, Mitmproxy, Pipenv, Shopify, Requests, Selenium, PyQt