

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

Program written in Go designed to supplant Openstack. Ran on a controller node that interacted with compute nodes provisioned as type 2 hypervisors to spin up VMs via libvirt. Features included: first class support for local disk storage (caching), ability to add/remove disks to existing instances, allow specific libvirt xml on a per instance basis and a provided noVNC url without authentication. Base images were built, sysprepped and uploaded to the controller which were then dispersed to the compute nodes. Windows images were built with packer; linux OSes made use of virt-builder/libguestfs.

Technology used: Go, libvirt, postgres, packer, virt-builder, Windows, Linux

QAPI | DATTO INC. SOFTWARE ENGINEER

September 2017 - March 2020 | Rochester, NY

Django web app that allowed users to create and manage VMs for manual and automated testing. Served as a user friendly interface to "nanostack". Deployed with kubernetes and had various crons to: backup the Django database and to post to our channel via slack webhook if an instance failed to spin up with one of our CI/CD test scripts. Pydantic models were used for request validation on top of Django's existing serializers.

Technology used: Python, Django, redis, grafana, swagger, mypy, black, pydantic, Docker, Kubernetes

AUTONOMOUS ROVER | RIT STUDENT

March 2018 - April 2018 | Rochester, NY

Capstone project for CPET-563 (Embedded Systems Design II). Lead software engineer of 1st place winning autonomous maze traversal rover at Imagine RIT 2018. Featured on [krkl's blog](#) • [Code here](#)

Hardware components included: krkl snickerdoodle, 3x Ultra sonic sensors, 1x IMU

Technology used: VHDL, Vivado Design Suite, Altera ModelSim, C, Python, PyQt, flask, matplotlib

SUPREME | PERSONAL

March 2016 - Present | Rochester, NY

Automated shopping experience for Supreme NYC web shop. Intended to aid with release of limited products. • [Code here](#)

Technology used: Python, Selenium, PyQt, pipenv, mitmproxy