

Ryan Drew

LIFELONG LEARNER · EXPLORER

Greater Denver Area, Colorado

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Computer science undergraduate seeking an opportunity to further learn and gain work experience within the cybersecurity industry through a paid or unpaid security internship during the Summer of 2021.

Education

University of Colorado at Boulder

Boulder, Colorado

B.S. IN COMPUTER SCIENCE (3.8 GPA)

2018 - PRESENT (Junior)

- Pursuing M.S. in the Technology, Cybersecurity and Policy (TCP) program on a five year track, with a minor in Engineering Management
- Member of Engineering Honors Program (EHP), Engineering Leadership Program (ELP) and Boulder-CU Leadership Program (BCLP)
- Relevant Completed Coursework: Algorithms (CSCI 3104), Design and Analysis of Operating Systems (CSCI 3753), Engineering Economics (EMEN 4100), Fundamentals of Computer Security (ECEN 4133), Intro to Artificial Intelligence (CSCI 3202), Software Development Methods and Tools (CSCI 3308)

Skills

Languages	Python, Scala, Bash, Brainfuck, YAML, Markdown, LaTeX
VM/Container Platforms	Docker/Podman, OpenStack, KVM, Kubernetes, Heroku, Google Compute
Deployment Tools	The Foreman (PXE/Linux based), Ansible, Kolla-Ansible
Other	FreeIPA, PfSense, Cisco IOS, OpenVPN, vim

Experience

Earth Treks Climbing and Fitness

Golden, Colorado

PART-TIME INSTRUCTOR

Fall 2019 - Present

- Taught and lead youth programming that centered around building self-confidence, proper warm-up and climbing technique, verbal communication skills and safety while climbing within the gym.
- Conducted lead belay checks, top rope belay checks and routine floor walks to ensure high safety standards and build a welcoming community environment.
- Responsible for confronting and educating members putting themselves and others at risk, delegating to management as needed.

Zayo

Boulder, Colorado

CYBER SECURITY ANALYST I

Summer 2019

- Performed cost to functionality analysis in migrating corporate SIEM solution to the Elastic stack, researching growth requirements, opex and capex costs and use cases.
- Designed, deployed and administered proof-of-concept Elastic Stack for hands-on evaluation of SIEM capabilities, ease-of-use and resource requirements.
- Contributed to five-year security roadmap by providing insights from previous experiences and online research, gaining an understanding into the high-level purpose behind why our projects matter.
- Worked alongside colleagues and with upper management to promote climate of teamwork and collaboration, while learning what it means to own and take responsibility for a project.

CU Boulder's Integrated Teaching & Learning Program and Laboratory (ITLL)

Boulder, Colorado

IT STUDENT ASSISTANT I

Fall 2018 - Spring 2019

- Collaborated with full-time staff to integrate support for new end-user hardware into Microsoft Deployment Toolkit and Windows Deployment Services.
- Led overhaul of cable management in four student work areas to deter theft of assets and increase student productivity and public image.
- Communicated with customers and conferred with peers to troubleshoot and fix issues impacting use of end-user software.
- Supported incoming student staff to assist in assurance of smooth on-boarding process.

Lockheed Martin

Littleton, Colorado

GOES IT INTERN

Spring 2018

- Researched the potential security threat vectors, risks and mediations in implementing Machine Learning software internally through the use of online tool sets, digging through source code and reading academic research.
- Derived the state of compliance for customer's Linux system by performing an OpenScap OVAL scan, creating a baseline for understanding required remediation tasks.
- Collaboratively developed a Python script to automate ticket creation from system monitoring software alerts, in an effort to streamline the debugging process of servers and services.
- Explored the security regulation ecosystem to gain understanding of industry practices and NIST 800-53 standards.

Level 3 Communications (Now CenturyLink)

Broomfield, Colorado

THREAT RESEARCH GROUP SUMMER INTERN

Summer 2016 and 2017

- Developed Python code to pull Indicators of Compromise (IOCs) from Honey Pot Bots tweeting their compromises to Twitter in real time.
- Designed and programmed an application capable of managing SSH proxies for use in anonymizing large-scale Internet threat validations, comprised of Redis, Saltstack and Python.
- Set the standard for code documentation within the team through exemplification of a personal high standard of clarity, consistency and coverage.
- Containerized Python software into a Docker image for integration into a Docker Swarm production environment.

Extracurricular Activity

On-Prem Private Cloud

My Laundry Room

HOME DEVELOPMENT LAB

Fall 2018 - Present

- Designed, built and currently operate a three-node containerized OpenStack cluster with automated configuration management through the Kolla-Ansible project.
- Centralized user authorization/authentication, HBAC policies, sudo rules and authoritative DNS through containerized FreeIPA.
- Automated bare-metal and cloud provisioning of RHEL8 instances with PXE, Kickstart and custom Ansible playbooks.
- Operate PfSense box and Cisco Catalyst switch to manage network segmentation, firewall rules, VPN-based remote access and Let's Encrypt certificates.

CU Boulder Complex Leadership Challenges (COEN 3050) Global Intensive

Uganda and Rwanda

STUDY ABROAD

May 2019

- Gained first-hand insight into the massive complexity involved in addressing issues facing Ugandans and Rwandans, dispelling myths propagated through American society.
- Travelled to impoverished, wealthy and rural areas to get in-person views into just a sliver of life in Africa, breaking down the toxic stereotypes surrounding people in the continent.
- Traded stories and experiences with people in a wide range of ages, pushing through communication barriers in an effort to humanize everyone involved.

CU Boulder Climbing Team

Colorado

TEAM MEMBER

Fall 2018 - Fall 2019

- Compete in Collegiate USA Climbing (USAC) competitions throughout Colorado, with 10+ hours of practice per week.
- Embody idea of 'ambition without competition', supporting culture of rigorous self-improvement while remaining humble and sportsman-like towards others.
- Represent the CU Boulder Climbing Team both on and off the holds, communicating core values of acceptance, growth and fun.
- Research and evaluate proper training techniques to prevent injuries and streamline progress.

CU Boulder Engineers Without Borders Puerto Rico

Boulder, Colorado

SECRETARY

Fall 2018 - Spring 2019

- Acted as representative for the team when responding to emails from other organizations.
- Wrote notes during weekly meetings to document team discussions.
- Investigated complex global health and engineering problems impacting developing countries around the world, as well as the approaches and considerations needed for addressing them.