Charlie Hanacek

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Education

Washington State University, Pullman, WA – Expected Graduation December 2020
B.S. Computer Science
Cummulative GPA: 3.34

Technology Summary

Languages/Frameworks/Version Control/Applications: C, C++, SFML, SDL, Python, Numpy, Bash, Make, Ruby, Ruby on Rails, MySQL, SQLite, PostgreSQL, Python, JavaScript, Node.js, Vue.js, Swift, Alamofire, ELK Stack, Git, GitHub, GitLab, Docker and Docker-Compose, Kubernetes, LaTeX, Prometheus, Grafana, Graylog, ZFS, HTTP/HTTPS, Ansible, grep/sed/awk, SELinux, rsyslog, React
OSes: Debian- and RHEL-based Linux distributions, Mac OS X

Featured Project

Compartmentalized Docker (Hackathon Project – Won 1st Place at CrimsonCode 2019)

Compartmentalized Docker is container middleware that allows an administrator to set up and enforce role-based access control, eliminate privilege escalation vectors that exploit the mounting of sensitive host directories into containers, and set resource limits per role, all while giving users an autonomous control plane that makes other roles' containers on the same host invisible and inaccessible. Compartmentalized Docker sits between dockerd and the Docker command line interface, allowing users to set up access with the same Docker CLI they already know and love.
https://github.com/czhanacek/docker-rbac

Work Experience

Software Engineering Intern at Civis Analytics Chicago (June 2019 – August 2019)
- Modified an existing Zapier integration and webhook implementation to deliver a better user experience.
- Gave multiple technical presentations to technical, nontechnical, and semitechnical audiences.
- Built and refined security emails that alerted users when sensitive data associated with their account was modified.
Technologies used: Ruby on Rails, NodeJS, React, git

Linux SysAdmin at WSU VCEA IT Pullman, WA (August 2018 – Present)
- Automated deployment of logging and metrics collectors to arbitrary systems/networks
- Built and rolled out metrics infrastructure to alert IT staff of service disruptions
- Replaced a secure remote syslog server to aid in forensic and post-mortem investigations and richer alerting
- Pioneered sprint-based work schedule
Technologies Used: Grafana, Prometheus, Elasticsearch, Docker, Graylog, Ansible, git

Web Developer for Associated Students of WSU Pullman, WA (May 2017 – April 2018)
- Built a web app quiz that matches new students with clubs on campus based on their interests, similar to a Buzzfeed quiz.
- Created a bulk download and upload feature so that club and quiz attributes could be edited in a CSV
- Engineered a custom matching system to pair students with clubs that fit their interests
- Wrote documentation and unit tests for future developers to extend and update the application
Technologies Used: Ruby on Rails, sqlite, Heroku

Teaching Assistant for CptS 121 Pullman, WA (January 2017 - January 2018)
- Taught a three-hour lab once a week, guiding students as they learned.
- Graded all submitted assignments, quizzes, and exams
- Provided thoughtful, timely, and constructive feedback on all submitted work and assisted students with concepts and assignments during office hours
Technologies Used: C/C++11, gcc, Visual Studio

Leadership Experience

President of the WSU Linux Users Group Pullman, WA (May 2018 - Present)
- Planned, organized, and executed a 24-hour social gaming event called WSUCon in an extremely tight timeframe.
- Supported wired and wireless networking for 200+ PC gamers at WSUCon 2018, and 400+ PC and console gamers at WSUCon 2019.
- Planned, organized, and executed seven monthly to semi-monthly tech talks on a variety of topics, including early career tips, maintaining anonymity on a network, network security, and middleware.