Charlie Hanacek

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Education

Washington State University, Pullman, WA – Expected Graduation December 2020
B.S. Computer Science
Accumulative GPA: 3.34
Bainbridge High School, Bainbridge Island, WA – Graduated 2016
Accumulative GPA: 3.31

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, OpenSSH, Ansible, grep/sed/awk, SELinux, rsyslog, React

OSes: Debian- and RHEL-based Linux distributions, Mac OS X

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

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. Compartmentalized Docker sits between dockerd (or other container runtime, such as containerd) and the Docker command line interface, allowing end users to interact in almost exactly the same way with the Docker CLI they already know and love. Administration is only slightly less straightforward, but still through the Docker CLI.
https://github.com/czhanacek/docker-rbac

Work Experience

Software Engineering Intern at Civis Analytics (June 2019 – August 2019)
- Implemented push notification functionality for long running compute jobs that was drastically easier to configure than the previous solution using Zapier and webhooks.
- 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.

Information Security Group Student SysAdmin at WSU VCEA IT (August 2018 – Present)
- Built a systems monitoring and data dashboard service using an array of Raspberry Pis. This dramatically improved the response time of our staff in addressing downtime. End users have also begun to use this as a self-service tool to diagnose their own computer problems.
- Re-implemented and improved a Raspberry Pi-powered LDAP password reset station for helpdesk staff
- Built a secure remote syslog server to aid in forensic and post-mortem investigations and richer alerting

Web Developer for Associated Students of WSU (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

Teaching Assistant for Program Design and Development in C (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

Leadership Experience

President of the WSU Linux Users Group (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.