KHUONG LUU

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EDUCATION

Oregon State University   July 2017 - June 2020 (expected)
Pursuing B.S. Degree in Computer Science. GPA: 3.70 (as of March). Senior standing.
Highlight Courses: Advanced Operating Systems, Cyber Attacks & Defense, Compilers

EXPERIENCE

Student System Engineer   Februrary 2019 - Present
Oregon State Open Source Lab

· Deploy and maintain infrastructure primarily with Chef and CFEngine
· Automate tests, conduct code reviews, continually improve existing codebase.

DevOps Contributor   January 2018 - June 2018
Civic Software Foundation

· Worked in a DevOps team on an open-source, non-profit project civicplatform.org
· Improved and maintained AWS infrastructure of civicplatform.org that serve its data analysis services
· Developed tools and provisioning configurations in Bash and AWS Cloud Formation
· Product: civicplatform.org - GitHub Repository: github.com/hackoregon

Research Assistant   January 2018 - Present
Oregon State University

· Develop scripts in Python and Bash to acquire, clean, and import 4 TBs of data of Apache log files to MySQL
· Optimize MySQL to reduce query latency on large data
· Build a website for other researchers to query and visualize the data and see the results of the analysis

Department of Energy's Cyber Defense Competitions   April 2017, December 2018
OSU Security Club Team

· In a team of 6 members, defended a network infrastructure and applications from professional penetration testers
  while also maintaining reliable services for end users. 1st regional, 3rd national
· Administered, hardened, and found vulnerabilities in Linux hosts, Wordpress, and Django web applications
· Wrote usage documents for end users and technical documents for my team and the competitions' administrators

Teaching Assistant, CS162 - Introduction to Computer Science II   December 2017 - February 2019
Oregon State University

· Mentor and assist students in introductory programming topics with C++ via office hours and discussion board
· Develop Bash scripts that automate or speed up my grading process to spend more time on code review

PROJECTS

JOS - JOS Operating System. Project in my (on-going) Advanced Operating System course
From the existing boilerplate C code, build a full-fledged, bootable operating system. Components include memory
management, processes management, preemptive multitasking, file system, and shell

Python Parser - A parser for a subset of Python programming language. github.com/khashf/compyler
Used GNU Flex with regular expressions for lexing, GNU Bison for parsing into abstract syntax tree

dotfiles: Personal configurations for bash, git, vim, tmux. Bring it anywhere with robust 1-hit automated
installation. Repository: https://github.com/khashf/dotfiles

ACTIVITIES

Solved 5/7 tasks in 2018 NSA CodeBreaker Challenge which involves Reverse Engineering and Forensics