ALAN Y. HUANG

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SUMMARY

- Highly experienced in managing large scale compute infrastructures with skills ranging from automation development, monitoring, Linux host debugging, and service deployments.

EXPERIENCE

DevOps Engineer July 2018 - Present
Synopsys, Solutions Group - Hillsboro OR

- Streamlined IP release process by creating automated repository sync and management tool.
  - Leveraged technologies such as Javascript/jQuery, Python, and Git.
- Designed and manage VM infrastructure (assigning resources, load balancing, VM deployments) used for hosting automations, service hosts, and custom VMs.
- Develop and maintain automation infrastructure and compute hosts.
  - Debugging of Linux hosts, investigating new technologies, and deploying services and automations.
- Liaison and "fixer" for engineering and IT communications and joint projects.

Linux Systems Engineer June 2015 - July 2018
Synopsys, Information Technology and Engineering Support - Hillsboro OR

- Worked closely with several international teams during acquisitions for integration of their compute environment to ensure a smooth bring up.
- Managed local datacenter including network/storage appliances. Responsibilities included the entire lifecycle of servers: purchase, physical installation, provision/management, removal and retirement.
- Participation in 24/7 on-call as well as disaster recovery operations.
- Work with engineering teams for development of joint automations, services, and tools.
- Project lead for site networking upgrade including datacenter backbones, floor networks, and wireless networks.
  - Coordinated work with contractors and facilities for fiber and facilities hardware installation.
  - Cabled and installed all datacenter backbone switches, floor IDFs, and networking endpoints.
- Daily responsibilities include monitoring datacenter health, Linux host triage/debug, deployment/scaling of IT services, automations, and tools.

Bioacoustics Signal Processing Research Assistant June 2013 - June 2015
Oregon State University, College of Engineering - Corvallis OR

- Created MATLAB tool set for filtering audio data to generate, whiten, classify, and segment spectrograms.
- Developed a MATLAB GUI tool for inspecting spectrograms in order to more efficiently develop and test classifiers for spectrogram whitening algorithms.
- Developed tool set is now being used for both avian and underwater audio analysis.

TECHNICAL SKILLS

- Programming: Python, C, C++, Perl, TCL, Assembly, AVR, MATLAB, LaTeX, BASH, SQL
- DevOps Technologies: Jenkins, Virtualization Technology (oVirt, KVM, VMWare, Virtualbox), Docker, Perforce, Git, Kubernetes, Ansible, Elasticsearch, Grafana, Nagios, Apache, HAProxy, Terraform
- DevOps Principles: Load balancing, microservices, robust architecture design, networking, NFS/storage, CD/CI
- Operating Systems: CentOS, RHEL, Ubuntu, Windows, MacOS
- Front-End: JavaScript, jQuery, HTML, CSS, Flask, PHP, Sharepoint

EDUCATION

Oregon State University, Corvallis, OR Class of 2015
Bachelor of Science in Electrical and Computer Engineering - Analog Design