

# Zachary Horvath

MULTI-PLATFORM SRE · DEVOPS ENGINEER

Seattle, WA

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## Skills

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<b>Operating Systems</b>	CentOS, RHEL, Ubuntu, Debian, Alpine, Windows Server
<b>Core Technologies</b>	AWS, Azure & Office 365, VMware, Active Directory & FreeIPA, GitLab & GitHub, ElasticSearch, Public Key Infrastructure
<b>Tooling</b>	Docker, Terraform, Packer, Chef, Bash, PowerShell, Python (Scripting), HTML/CSS/PHP/SQL (Basic)
<b>Key Concepts</b>	DevOps & GitOps, Infrastructure-as-Code, Containerization, Systems Architecture & Engineering, Incident Response
<b>Languages</b>	English, Japanese (Basic)

## Professional Experience

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### Fred Hutchinson Cancer Research Center

Seattle, WA

SYSTEMS ENGINEER II

Apr. 2018 - Current

- Currently rearchitecting cross-platform public cloud environments; this includes tools used, logical account management, user management, child account provisioning, and infrastructure automation.
- Working towards containerizing legacy applications and offering Docker container consulting, design, and hosting as a managed Kubernetes service to staff.
- Designed and implemented a custom ElasticSearch-based search engine leveraging open source technologies and multiple unique data sources.
- Deployed Atlassian Jira, Confluence, and Crowd for SSO enabled cross-department productivity and documentation. Built workflows for teams to consolidate multiple issue-tracking platforms into one.
- Implemented Terraform, Packer, and Vault to automate secure infrastructure deployment and created training curriculum to evangelize new tooling. Modified existing open-source Terraform plugins to work with on-premises appliances. Extended functionality of these tools with creative Bash and Python scripts.
- Overhauled Chef recipes to more closely align with Linux best practices. Currently converting configuration management to Ansible playbooks and developing a CI process for deployment.
- Implemented GitLab to consolidate the Fred Hutch SCM/CI/CD strategy. Developed pipelines to allow data scientists and engineers to work with public cloud resources.
- Consolidated Linux machine management on FreeIPA to handle user authentication, SSH key management, and PKI. Federated with Active Directory domain and trusting the certificate authorities.
- Assisted with backend architectural efforts in major website redesign, from AWS resource management to developer troubleshooting.

### Amplero Inc.

Seattle, WA

NETWORK / SYSTEMS ENGINEER II

Feb. 2016 - Mar. 2018

- Designed and implemented new AWS accounts, and facilitated cloud migration from VMWare to AWS infrastructure.
- Conducted migration from parent company's VMware environment to AWS, as well as splitting out other services such as Active Directory into FreeIPA, migrating Confluence and Jira, and migrating Exchange 2010 to Office 365.
- Managed a virtualized CentOS Linux environment with Windows machines to support Windows end-systems. Leveraged Puppet for all system configurations to maintain uniformity and version control, with Group Policy for Windows servers.
- Operated and deployed a large range of 'big data' services across production networks, such as Cloudera Hadoop with Impala, HDFS, YARN, and Zookeeper. Other notable back end services include PostgreSQL and Apache.
- Provided operational T3 24/7 on-call support to internal teams working with customers around the world, working directly with customers on data integration efforts and coordinating data center resources.
- Responsible for providing primary IT support to a team of 45, as well as developing a training program for junior engineers.
- Promoted internally from Systems Engineer I.

## Globys Inc.

Seattle, WA

### SYSTEMS ENGINEER

Feb. 2014 - Feb. 2016

- Managed primarily Windows 2008 and 2012 Servers, with a minimal CentOS Linux population. Configuration mostly managed by Group Policy.
- Conducted minor penetration testing against internal and external hosts utilizing Metasploit and other open source tooling. Assisted in drafting and implementing recommended security fixes, and bringing infrastructure up to PCI compliance.
- Managed and deployed multiple VMware ESXi hosts, configuring for High Availability via vMotion.
- Serviced and deployed Dell servers for a variety of purposes. Gained familiarity with internal components and troubleshooting steps.
- Implemented custom Syslinux/Windows Deployment Services to provide on-the-fly machine deployment in both Windows and Linux.
- Provided continual support for company websites in both code optimization and content deployment. Made significant improvements on Drupal platform to reduce latency and increase security.
- Established Corporate IT knowledgebase for documentation centralization. Implemented Lansweeper for asset tracking and to fulfill CMDB requirements for PCI.
- Promoted internally from IT Support Technician.

## Staples

Silverdale, WA

### ON-SITE TECHNICIAN

Mar. 2012 - Jun. 2013

- Managed customer appointments for home & business repair. Serviced consumer and small-business computer systems on-site.
- Leveraged Linux-based live distributions to accelerate work flow.
- Promoted from Easy Tech Bench Technician.

## Industry Experience

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### Horvath Information Technologies

Greater Seattle Area, WA

#### OWNER / OPERATOR

Jan. 2013 - PRESENT

- Currently offering full stack web design & hosting for Small Businesses.
- Drove multiple customer projects to success, maintaining consistent business and satisfied clients.
- Attend multiple startup and technology conferences and conventions for networking opportunities.
- Provided penetration testing services for mostly utility and government clients under Safe Site Remote LLC, including WSDOT.
- Developed client infrastructure off of AWS, utilized PostgreSQL for database environment and vendor software to establish product network.
- Drafted whitepapers and security assessments for customer use, and provided detailed Security Operations Center runbook for threat mitigation and response strategies.

## Certifications & Awards

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### CERTIFICATES

- 2012 **OSCP**, Offensive Security Certified Professional
- 2010 **A+**, CompTIA

### COURSES

- 2015 **Pentesting with Kali**, Penetration Testing Course Seattle, WA
- 2015 **Certified Ethical Hacking**, CEH v8 Exam Prep Course Seattle, WA
- 2015 **Automating Administration with Windows Powershell**, Powershell Scripting Seattle, WA
- 2013 **Administering Server 2012**, Windows Administration Course Bremerton, WA
- 2012 **Pentesting With Backtrack**, Penetration Testing Course Bremerton, WA

## Education

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### Olympic College

Bremerton, WA

#### ASSOCIATES DEGREE OF SCIENCE

2010-2013

- Participated in 'Running Start' with A.P. credits and full time technician jobs.
- Focused heavily on systems administration courses, featuring both Windows and Linux focus.