Paige A. Thompson

Systems Engineer / Software Developer Seattle, Washington

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At my core I am a systems administrator and software engineer. Starting in the year 2000, I grew up immersed in the Seattle tech and startup scene around other professional systems administrators, software engineers, and security researchers. I share the same undying passion for better software and technology with many of my professional colleagues and friends. I have sought to establish a strong, security-minded skill set throughout my career as well as a vital appreciation for productive technology that interfaces with the non-technical world.

EXPERTISE

Programming	Bash, Python, PHP, C#, Javascript, C/C++, Golang, Rust
Operating Systems	Windows Server(2k, 3, 8, 16) Linux(SuSE/Kubic/Gentoo/Debian), FreeBSD, OpenBSD
Virtualization	KVM/libvirt, containerd/cri-o, OpenvSwitch, Vagrant, podman, docker-compose, Terraform, Helm
Networking	OpenVPN, L2/L3 tunneling, tcpdump, iptables/nftables(v0.9/1.0+), eBPF, iproute2, NetFlow, scapy, hping3, tcpreplay/bittwiste, TCP/IP(v4/v6) PROXY Protocol, HTTP Forward/Reverse Proxying
AWS	S3, EC2, VPC, IAM, Route53, CloudFormation, Organizations, CloudWatch, CloudTrail
Design	HTML/CSS, Hugo, WordPress, Django, Kdenlive, GIMP
Other	DNSSEC, BCP38, principle of least privilege, ACME, SNI, transaction isolation, eventual consistency, OpenID, JWT, SAML, responsible disclosure, good faith hacking

HISTORY

Upwork *Freelance Software / Systems Engineer* Virtual · Jun 2023 – Jun 2023

- Developing solutions with OpenVPN, FRR, and Ansible

Amazon Web Services Inc. *Systems Engineer Level 4 - S3 Border Reliability* Seattle, Washington · May 2015 – Sep 2016

- Planned, scheduled, and configured new hardware in Amazon's datacenters around the world to address network capacity needs and new capacity for introduction of new availability regions.
- Assisted in the removal and much needed documentation of processes for retiring deprecated infrastructure without affecting customers or other services in the organization.
- Participated in a 24/7 on-call rotation to address and remediate customer impacting events such as outages, software and hardware faults, and denial of service attacks within service level agreements.

ATG Stores Inc. *Software Engineer - Internal Tools Team* Kirkland, Washington · Jan 2014 – May 2014

- Developed applications in .NET for the internal tools team; anything from adding new models and/or business logic in Dynamics AX/GP to a simple FTP client designed specifically for the marketing team.
- Collaborated with the website team on resolving their backlog items; Javascript errors that occur in specific views and not others, CSS bugs, and minimizing false positives in the logging framework.

ConnectXYZ LLC. *Lead DevOps Engineer / Software Engineer* Woodinville, Washington · May 2012 – Jun 2013

- Built systems deployment and configuration automation with Opscode Chef on Rackspace infrastructure; this entire stack included HAProxy, nginx, PHP-fpm, Percona XtraDB cluster, Couchbase, OSSEC, munin, and nagios.
- Developed custom Iptables and ISC Bind 9 chef cookbooks. The iptables cookbook used chef-client registration information together with role-based attributes to determine specific egress/ingress rules on both the internal and external network planes without a need for one-off firewall rules to be specified.

HISTORY (CONTINUED)

Acronym Media Inc. *Software Engineer* Telecommute · Jan 2011 – Jun 2013

- Assisted in the development of an SEO (KPI and insights dashboarding) analytics platform using PHP Symfony, Highcharts.js, MySQL/Propel.

The Branning Group *Software Engineer - Part-Time* Telecommute · Jan 2010 – Jan 2011

- Developed on Wordpress, drupal, Joomla, and custom PHP/MySQL/Javascript websites.

Onvia Inc. *Software Engineer* Seattle, Washington · Nov 2008 – Mar 2009

- Developed a data migration platform in C#, LINQ, MSSQL, LINQ-to-SQL, WCF, and WPF for the purpose of moving data from an older SQL 2000 database to a newer ORM-based database and production environment.

Zion Prepatory Academy *IT Manager - Part-time* Seattle, Washington · Dec 2007 – Mar 2010

- Managed Active Directory, Exchange Server 2007, Google Apps for Education / non-profits, accounting software, networking, and security for roughly 100 users; the entire K-6 school including faculty and students. This included backups, updates, audits, and adding capacity when necesarry.
- Provided help desk and computer repair for all school computers; often included fresh installations of Windows XP with Office, student software, all were managed in active directory which consisted of several organizational units and subsequent group policy configurations.

SeattleSoft Inc. *Software Engineer / Systems Administrator* Seattle, Washington · Oct 2005 – Mar 2007

- Developed an inventory management front-end application for PalmOS 4.x in Metrowerks CodeWarrior for Symbol SPT 1846 PalmOS-based PDAs. The application could scan labels for products anywhere with WiFi access around a warehouse and allows for remote management of inventory.
- Developed websites and applications using Java, PHP, HTML, CSS, and JavaScript.

CERTIFICATIONS

Hurricane Electric IPv6 *Sage* Virtual · 2022 – 2022

PRESENTATIONS

NFTables 1.x *Intro to NFTables 1.x* Virtual · 2022 – 2022

- https://paige.bio/nftables_presentation

EDUCATION

Bellevue Community College *Associate Arts (A.A.) Computer Programming* Bellevue, WA · 2005 – 2005

ACTIVITIES

Netcrave Communications *Sole Proprietor* Virtual · 2000 – 2019

- Provided DNS, e-mail, website, shell acounts, and game server hosting as well as static IPv4 and IPv6 tunnels.
- Virtual private network access with active network monitoring services and denial of service protection.
- Conducted independent security research to better understand the nature of security problems on the modern internet; distributed denial of service attacks, weaknessess in the use of mature software, cryptography scalability and adoption, and the psychology of both threat actors and systems/software engineers.