Robert Wespetal

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Experience

2018–Present — **Software Engineer**, *Amazon Web Services*, Seattle, WA.

I currently work for the Amazon EC2 VPC team. My team works on the network packet pipeline that powers EC2.

I also worked for the AWS HPC organization and helped develop key parts of the HPC userspace stack to launch Elastic Fabric Adapter (EFA), an OS-bypass network interface for Amazon EC2 instances. I was one of the maintainers for the EFA plugin in Libfabric, a networking middleware library. I collaborated with other software and firmware teams at Amazon to support EFA and launch new device capabilities for customers.

2015–2018 — **Software Engineer**, *Cray Inc.*, Saint Paul, MN.

I worked in the storage organization at Cray and focused on storage products for High Performance Computing systems.

One product I worked on was the DataWarp burst buffer product, a flash storage system designed to accelerate HPC workloads. I worked as a Linux filesystem developer on this team and became familiar with usage and administration of Cray systems. I also worked on an advanced development team that investigated storage industry trends and prototyped future HPC filesystems. I was a co-author on a paper published at the Cray User Group that discusses our findings.

2012-2015 — **System Administrator**, *UW-Madison Computer Sciences Dept.*, Madison, WI.

My primary duties included Linux and Windows system administration and technical support for students and staff.

Education

2011-2015 — **Bachelor of Science: Computer Science**,
University of Wisconsin, Madison, WI, *3.8/4.0 GPA*.

I graduated with distinction in the major and focused on operating systems, computer networks, and security. I completed a graduate level course on operating systems and wrote a short conference-style paper on fuzzing multi-threaded applications.

Skills

Languages:	C, Python	Linux:	OS-bypass networking, kernel filesystem development, general administration
AWS:	EC2, CloudFormation, ParallelCluster	Tools:	Ansible, Jenkins, Git