

Robert Wespetal

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Experience

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

I currently work for the Amazon EC2 High Performance Computing organization. My team works on the core technologies HPC customers need to run their applications on AWS.

The primary focus of my team is to support the software required for MPI and NCCL applications to utilize [Elastic Fabric Adapter](#) (EFA), an OS-bypass network interface for Amazon EC2 instances. I am the development lead for the EFA [Libfabric](#) networking middleware library. I also am responsible for supporting the software required to release EFA software to customers, automated testing, and I am familiar with the AWS services required to run HPC workloads.

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 performant 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. Another team I worked on at Cray was an advanced development team that investigated storage industry trends and worked on developing prototype 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

AWS: EC2, CloudFormation, ParallelCluster

Linux: OS-bypass networking, kernel filesystem development, general administration

Tools: Ansible, Jenkins, Git