

Kurt W. Kroeger

SENIOR SOFTWARE PERFORMANCE ENGINEER @ ISILON

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Education

Purdue University

West Lafayette, IN

B.S. IN COMPUTER SCIENCE MINOR IN ORGANIZATIONAL LEADERSHIP

December 2015

- Directed research optimizing applications for the Intel Xeon Phi architecture
- Led team that created an analysis platform for Enova Financial based upon CouchDB and EC2

Experience

Dell/EMC Isilon

Seattle, WA

SENIOR SOFTWARE ENGINEER - PERFORMANCE

October 2017 - Present

- Assisted in closing escalated, complex mission critical or politically hot customer escalations and PoC's
- Coordinated with engineering leadership on performance expectations and release status
- Designed best practices for multiple performance workflows including EDA, M&E, Life Sciences, HPC, and VDI
- Managed performance tooling and performance validation roadmaps
- Member of "tiger team" analyzing enterprise customer pain points

SOFTWARE ENGINEER - PERFORMANCE

February 2016 - October 2017

- Developed and used performance analysis tools (DTrace, KTrace, and proprietary tools)
- Evaluated next-generation Isilon hardware and releases for performance and scaling capabilities
- Root cause analysis of complex performance problems in OneFS across the entire stack (userspace, kernel, and hardware)
- Wrote technical documentation to disseminate performance analysis techniques

SOFTWARE ENGINEER INTERN - ENGINEERING SERVICES (CLUSTER PROVISIONING AND IAAS)

Summer 2015

- Parallelized provisioning code reducing cluster provisioning times by 50%
- Re-factored architecture into modular components improving extensibility and maintainability

SOFTWARE ENGINEER INTERN - INSIGHTIQ (PERFORMANCE MONITORING AND REPORTING)

Summer 2014

- Overhauled logging based upon requests from customers, the InsightIQ team, and Isilon support
- Work finished ahead of schedule and shipped in the next release (IIQ 4.0)

Rosen Center for Advanced Computing

West Lafayette, IN

HPC SYSTEMS ENGINEER

May 2012 - Dec. 2015

- Team responsible for the operations of Purdue's Research Computing environment which included multiple TOP500 clusters
- Evaluated new HPC technologies (HP Moonshot & Xeon Phi) for performance and scaling capabilities
- Setup PoC Cloudstack & Openstack solutions then assessed their ability to solve our IaaS goals

Honors & Awards

Mar 2018 **Dell Champion**, Outstanding contributions to the business and dedication to customers

Dell/EMC Isilon

Jun 2017 **Excellence@EMC Gold**, Rookie of the Year, high impact within the first year of employment

Dell/EMC Isilon

Feb 2017 **Excellence@EMC Bronze**, Performance characterizations supporting a critical account

Dell/EMC Isilon

Aug 2016 **Excellence@EMC Silver**, Automating and streamlining performance reporting

Dell/EMC Isilon

June 2015 **Excellence@EMC Silver**, Delivering ahead of schedule and well above the standard mark

EMC Isilon