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

Oct. 2017 - Present

- Assisted in closing escalated, complex mission critical or politically hot customer performance issues
- Versed in EDA, Media and Entertainment, and VDI workflows
- Wrote technical documentation to disseminate performance analysis techniques

SOFTWARE ENGINEER - PERFORMANCE

Feb. 2016 - Oct. 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)

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

May 2015 - August 2015

- Modularized software to improve extensibility and usability
- Parallelized provisioning code and removed bottlenecks which reduced cluster provisioning times by 50%

SOFTWARE ENGINEER INTERN - InsightIQ (PERFORMANCE MONITORING AND REPORTING)

May 2014 - August 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. 2016

- 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

Jun 2017	**Excellence@EMC Gold Award**,	Rookie of the Year, high impact within the first year of employment	*Dell/EMC Isilon*
Feb 2017	**Excellence@EMC Bronze Award**,	Performance characterizations supporting a critical account	*Dell/EMC Isilon*
Aug 2016	**Excellence@EMC Silver Award**,	Automating and streamlining performance reporting	*Dell/EMC Isilon*
June 2015	**Excellence@EMC Silver Award**,	Delivering ahead of schedule and well above the standard mark	*EMC Isilon*

Skills

Databases	CouchDB, InfluxDB, MongoDB, SQL
Programming	Bash, C, C++, Java, Javascript, Perl, Python
Tools	Cloudstack, DTrace, Git, KTrace, Openstack, PCAP, Puppet, SVN