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 - Current*
SOFTWARE ENGINEER - PERFORMANCE	*Feb. 2016 - Oct. 2017*

- Assisted in closing escalated, complex mission critical or politically hot customer performance issues
- 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)	*May 2015 - August 2015*

- 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

Extracurricular Activities

ACM SigHPC / Student Cluster Challenge	*West Lafayette, IN*
PRESIDENT & TEAM LEAD	*Feb. 2013 - Nov. 2014*

- Directed scheduling for maximal efficiency and performance along with monitoring progress
- Participated in SC12 (Salt Lake City), ISC'13 (Leipzig, Germany) and SC14 (New Orleans)

BoilerMake	*West Lafayette, IN*
HEAD OF USER EXPERIENCE	*April 2013 - Dec. 2016*

- Purdue's MLH hackathon with over 500 participants and $250k in funding
- Managed a team of 6 to oversee AV, Electrical, Food, Internet and Layout

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