Kurt W. Kroeger

SENIOR SOFTWARE 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 co-processor architecture
- Led team that created an analysis platform for a financial firm based upon CouchDB and EC2

Experience

Facebook   *Seattle, WA*

PRODUCTION ENGINEER   *December 2019 - Present*

- Ensure that Facebook's services run smoothly and have the capacity for future growth.

Dell Technologies - Isilon   *Seattle, WA*

PRINCIPAL SOFTWARE ENGINEER - PERFORMANCE   *October 2019 - November 2019*

SENIOR SOFTWARE ENGINEER - PERFORMANCE   *October 2017 - October 2019*

SOFTWARE ENGINEER - PERFORMANCE   *February 2016 - October 2017*

- Assisted in closing escalated, complex mission critical or politically hot customer escalations and PoC's
- Automated performance testing drastically reducing performance engineering toil
- Designed performance analysis tools for kernel and user space tracing
- Root cause analysis of complex distributed system performance problems in OneFS across the entire stack
- 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 (InsightIQ 4.0)

Rosen Center for Advanced Computing   *West Lafayette, IN*

HPC SYSTEMS ENGINEER   *May 2012 - Dec. 2015*

- Team responsible for the operation of Purdue's Research Computing environment which includes 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
- Worked with team to migrate configuration management from CFEngine to Puppet

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*