**Lucas Eppel(30), Sr. Systems Engineer**

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# Summary

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| As a **systems**, **virtualization**, **distributed**, and **HPC compute engineer**, I provide highly technical analytical, architectural, and operation engineering support of virtual cloud technologies (**VMware**/ESX, OpenStack, general **IAAS** etc), as well as distributed compute (**RHEL**, \*NIX variants, AIX, HP-UX, etc). I am highly fluent in **back-end technologies** and the hardware that is required to run said systems (see below).   * 4 years HPC 3rd/4th level engineer * 12 years Linux/Unix engineer (2 years second level, 10 years 3rd/4th level) * 10 Years 3rd/4th level Virtualization engineer * 2 year Converged/Hyperconverged infrastructure |
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# Proficiencies

## Platforms

* VMware/ESX (vRealize & vROPs general knowledge)
* OpenStack
* HPC clusters (bare-metal)
* Distributed compute (virtual and Physical)

## Hardware/back-end systems

* HP ProLiant Chassis and distributed (rack-mount) compute
* Dell Chassis and distributed (rack-mount) compute
* Cisco UCS infrastructure
* Lenovo (formerly IBM) System X hardware line & chassis
* Commodity hardware (SuperMicro distributed compute)

# Experience

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| Sr. Systems Engineer Echo Global Logistics   * Planning, orchestrating, and engineering a modern VMware/cloud platform for Echo’s next-gen TMS systems * Active author of Data center architecture and design projects, as well as our data center migration projects(active/active data center, ground-up build). * Full life cycle support of ~1700 VM’s. * Oversees & designed Echo’s Business-to-business (B2B) infrastructure. * Full stack (storage, network, compute,WAN) engineer  Virtualization Engineer | 06/19-Current |

*Blue Cross and Blue Shield of Illinois || HCSC 07/18-06/19*

* Primary responsibilities include operational escalation support to lower levels
* Deploy, configure, and test cloud hardware, SDN, and “plug-in” functionality
* Approve and help design new application intake into environments.
* Capacity management and capacity reporting
* Managing a team of 30 Offshore resources who conduct all daily lower-level support
* Stand up new Infrastructure and run POC.

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| IOT/distributed compute Systems Engineer | 9/17-7/18 |

*Argonne National Labs*

* Run day-to-day operations and functional support for deployed nodes in field
* Run burn-in/factory build/sign off for custom parts/nodes we self-manufactured
* Responsible for vendor management with company for node deployment/logistics

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| Systems Engineer | 9/15-9/17 |

*University of Chicago*

* Lead Systems engineer & architect responsible for architecting, building, and maintaining OpenStack cloud.
* Security analyst responsible for vulnerability assessment and resolution
* Liaison for patching and security assessment for department
* Sole tech owner of Bioinformatics and Genomic sequencing lab running computationally-heavy workloads
* Lead technologist responsible for government compliance and grant restrictions.

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| Systems Engineer | 9/15-9/17 |

*University of Chicago/NIH Singapore*

* Private contractor with NUH Singapore to setup, deploy, and test a replica of University of Chicago current setup for innovative and novel cancer research.
* While onsite, successfully built, configured, and deployed a total complete system in 10 days.
* Lead architect and Systems administrator while in Singapore.
* Conduct and lead all training initiatives with Singapore staff.

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| Systems Engineer | 2/14-9/15 |

Caterpillar, Inc

* 3rd/4th level operational support engineer
* Monitor, recover, supervise, and develop all RHEL enterprise servers and VMware infrastructure
* 24x7 on-call rotation support for global operations
* Design, support, Monitor, and administrate HPC Cluster
* SAN administration
* Monitor, diagnose, and consult business partners on performance and/or enhancements

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| Systems analyst | 9/9-2/14 |

State Farm Insurance

* 24x7 monitoring and surveying of the Unix/Linux server environment
* Monitored, deployed, and tracked Websphere application JVM’s, portals and deployment managers
* Supports critical customer-facing and company-facing applications
  + virtually via JVM (I.E. Enterprise Claims systems)
  + server applications (I.E. Oracle and DB2)
* Initiate and run full system backups of all Unix/Linux enterprise servers
* Monitor and recover health and stability of HA (High Availability) clusters supporting application services

# Education

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| Illinois State University *Bloomington/Normal Il*   * Associates, Some Bachelors. Hired outright by State Farm. | 12/13 |

[References by Request]