John Eismeier

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Professional Summary

HPC administrator with over 15 years of extensive expertise in Linux, HPC, and cloud technologies, adept at optimizing computational resources to foster academic research excellence. Skilled in deploying and managing complex systems, including HPC clusters, bare metal, Nutanix and Proxmox infrastructures, with a proven track record of enhancing system performance and reliability. Passionate about driving innovation in academic settings, leveraging advanced skills in tools like spack, podman, Apptainer, Docker and Ansible to support cutting-edge research initiatives.

Professional Experience

- **System Engineer III** - Worcester Polytechnic Institute - [2018-2025]
  - Teach Linux command line interface introduction supporting students academics.
  - Teach High Performance Computing SLURM introduction enabling research.
  - Enable researchers with software like gprMax, Gurobi, COMSOL, Fluent, SimVascular in HPC environment.
  - Deploy/Champion WebWork as needed for Placement, Calculus, statistics and additional course work.
  - Transform WebWork with grade passing LTI integration to canvas.
  - Offer Red Hat Academy courses self paced for students.
  - Manage Cadence/Mentor Virtuoso/Calibre ECE design and research infrastructure.
  - Install DNA, RNA, protein sequencing for course work and research.
  - Deploy slice constraints managing VScode CPU hogging and classic fork bombs.
  - Deploy research driven spack software installs in HPC SLURM environment.
  - Provide guidance on research approach utilizing HPC resources for academic goals.
  - Deploy chronyd for updated time synchronization solution for the campus.
  - Manage R1 HPC research cluster with 5k+ CPU/49T RAM/84 GPU and SLURM with PXE image boot/patch management
  - Deploy and Manage RHEL/Ubuntu Infrastructure
  - GPU trouble shooting and benchmark

- **Scrum Master** - Dell/EMC Corporation - [2014-2017]
  - Encouraged VPLEX build team delivering
  - Introduce Jenkins/Artifactory to replace legacy product build system with common off the shelf tooling improving build time from 8 hours to 2 hours reliably.
  - Matured new Jenkins/Artifactory build system so that Product Managers were enabled to create product releases to partners and customers.

- Completed migration from legacy Cloud to next generation Cloud Native with near zero downtime of development and release services supplied.
- Site Reliability contributor configuring Nagios for all critical servers/services in new Cloud Native infrastructure.
- Improved code quality and received "Silver Award of Excellence" by developing automation using Coverity static analysis tools to block defect introduction during code commit.
- Consumed Gitlab CE/EE as continuously delivered product by frequent Gitlab deployments via Puppet providing bug fixes, added features, i.e. squash commits.
- Transform product defect tracking from legacy ClearQuest to JIRA keeping a backlog of must fix issues that were exposed to leadership team. Furnished operational support/assignment migrating to JIRA.
- Safeguarded project/product resources by managing access controls of colleagues that left by driving defect reassignments guided by leadership input.
- Performed Scrum Master rituals; daily stand up, planned sprints, reviews, and fun retrospective; provided value to business with each sprint; published progress team completed, ensuring staff could learn, review and speed up product delivery.
- Enabled team members to develop and contribute to product deliverable goals by reviewing and repairing Nagios/Puppetboard reported issues of infrastructure daily.
- Certified delivery of new product was ready for release during every code commit by providing new end-to-end pipeline support in Jenkins of 30-day monitoring appliance.
- Protected infrastructure from Ransomware and improved product by repairing HeartBleed, WannaCry and ShellShock issues and managing vulnerabilities for developers and products.
- FOSS/Blackduck process contributor and earlier adopter socializing how to use; increasing legal approval time of FOSS integration into product.

- **Principal Build / Release Engineer** - Dell/EMC Corp. - [2012-2013]

  - Proposed Tableau reporting after BI tools evaluation of TIBCO, Pentaho, Tableau; Built server/desktop infrastructure that successfully replaced spreadsheet management.
  - Developed email push automation to mobile devices on daily Tableau reports, keeping management informed of progress and meeting business objectives established each quarter.
  - Learned and mentored current home grown VPLEX build / release platform, keeping software products released to customers.
  - Regular security audit implementing best practice post 2011 hack driving patch management processes and vulnerability assessments.
  - Created WPAtools virtual appliance with KIWI build tools SuSE/SLES JeOS platform. Portable disposable web for NetAPP hot spots used in dark / secure data centers. Appliance was patched with seccheck and NESSUS credentialed STIG scan for security application and appliance hardening.
  - Ensured appliance shipment by completing legal compliance and patent review requirements for third-party, expanding VPLEX spreadsheet for legal with VMware branding.

- "Gold Award of Excellence" for the delivery and support of the WPAtools appliance packaged on a thumb drive. This appliance included collaboration with Mitrend. The appliance incorporated XFS, PVSCSI, VMXNET3 drivers for optimization of the analysis and reporting.
- Site Reliability contributor deploying and management of ESXi servers, Virtual Machines, security patching and hardware replacement.
- Created automation for ClamAV daily product scans migrating away from legacy McAfee reporting deficiencies to Corporate IT and McAfee.
- "Silver Award of Excellence" for GIT SCM migration proposal replacing legacy CVS solution.

- **Senior Linux Engineer** - MONSTER WORLDWIDE, Maynard, MA - [2011-2012]

- **Principal Release Engineer** - [START UP COMPANY, Westborough, MA] - [2010]

Education

- [**Masters of Science (MS)**] - [Worcester Polytechnic Institute (WPI), Worcester, MA]

- [**Bachelor of Science (BS)**] - [Worcester Polytechnic Institute (WPI), Worcester, MA]

Skills

Python, Bash, Puppet, Ansible, YAML, Rake, Make, Cmake, Ruby, SQL, HTML, NodeJS, Maven, Ant, RPM,DPKG, GNU tools, Zypper, dnf, HPC/ai, Gitlab, VMware, Proxmox, Nutanix, Docker, Apptainer, podman containers, Ubuntu, RedHat, CentOS, SLES,Alpine, Windows, Solaris, HPUX, AIX, Cloud, Jenkins, Gitlab CE/EE, Puppet, Ansible, JIRA, Artifactory, Blackduck, ClamAV, DNS, SAN, NAS, LDAP,Github, WeBWork, Postgresql, MySQL, Redis, Xapian, MSSQL, SimVascular, Gitlab, Coverity, Tableau, JIRA, Nessus STIG, Sonar, Artifactory, Nagios, Cacti, Munin, ossec, Bro, KIWI, VMware studio, Bullseye, clamscan, savscan, ESET, splunk, Scrum Master for DevOps and LabOps team, Mentor, Security Vulnerability Management, Open Source Contributor