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Summary

Seeking to champion Linux/HPC/ai/CFD/WebWork/Virtuoso/Calibre/R/Comsol in an academic setting.

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

- **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]
- **EDA / Tools and Infrastructure Engineer** - EMC Corporation, Hopkinton, MA
- **Senior Software Tools and Infrastructure Engineer** - CLARiiON, Westborough, MA
- **Senior Software Tools Engineer** - BOSTON TECHNOLOGY, Wakefield, MA
- **Senior Software Tools Engineer** - GE AIRCRAFT, Lynn, MA
- **Senior Engineer** - RILEY STOKER, Worcester, MA
- **Mechanical Engineer** - COPPUS ENGINEERING CORP., Worcester, MA

Education

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

Skills

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