

Craig Earley

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Experience

High-Performance Computing Systems Admin, Research Computing @ CU Boulder - 2021-Present

- Provisioned and deployed the Alpine supercomputer, the third generation of on-premise high-performance computing infrastructure at CURC
- Coordinate with researchers and vendors to expand the Blanca condo cluster, which comprises nodes owned by researchers and managed by CURC
- Troubleshoot system problems to improve uptime and reliability
- Coordinate with user support team and systems architects to ensure optimal design and implementation of new features for the academic research community
- Conduct hiring and knowledge transfers to support the growth of a dynamic and rapidly-growing team
- Representative of CURC on the ACCESS Resource Providers, née XSEDE Service Providers, Forum

Computational Systems Manager - Earlham College Computer Science (Richmond, IN) - 2018-2021

- Engineered a data center consisting of over 20 Linux servers, including three high-performance computing clusters running CentOS, a Xen hypervisor for virtual machines, SQL databases, and Docker containers. Support teaching in computer science and researchers in computational chemistry, biophysics, and bioinformatics deploying software and running analysis on HPC clusters.
- Installed, configured, and now maintain Slurm instances on three clusters for batch queueing. Improved backup and monitoring services to increase uptime and reduce friction. Deployed an Ansible instance for automated systems management.
- First responder for system failures and chief architect of prevention measures – including redundancy, incident reporting, and monitoring. Implement best security practices.
- Oversaw the collection, modeling, and analysis of UAV survey data collected during survey research in Iceland.
- Mentor 7-10 undergraduate students learning to administer Linux servers each semester. Supervise students in project groups and classes, about both technical and professional matters. Twice sat on hiring committees. Help plan the future of the department and navigate crises.

Information Technology Consultant - Earley Tech Solutions (Eastern Montana) - June 2017-June 2018

- Implemented convenience store point-of-sale system in collaboration with technicians and supervisors
- Built and maintained wireless networks with Ubiquiti hardware for locally-owned motel at two sites

Education: B.A. in Computer Science - Earlham College – Dec. 2016 | College and Departmental Honors

Key Skills

- Systems and Networking: Linux (CentOS, Debian), Bash, ZSH, TCP/IP network architecture, SQL database administration, DNS, DHCP, scripting for automation, Apache configuration and deployment
- High-Performance Computing: Ansible, LDAP, NFS, Slurm, Mellanox Infiniband, CUDA, monitoring
- Software Development: Git, Python, C, C++, Android (Java), some Perl
- Communication: Documentation, technical writing, blogging, photo and video production
- Leadership: Mentorship, training, onboarding, budget proposals, inventory procurement

Code: github.com/craigeearley | code samples available upon request