

JOSHUA HOBLITT

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WORK EXPERIENCE

Principal DevOps Engineer — *Large Synoptic Survey Telescope (LSST) / Rubin Observatory - Tucson, AZ* **October 2014 - Present**

- Masterminded replacing GPFS with Ceph for all on premise storage.
- Contributed multiple features to Rook to support infrastructure as code configuration for Ceph.
- Championed and implemented migration of most on premise workloads to Kubernetes.
- Fleetized the Kubernetes.
- If it could go, it went... to AWS, GCP, or DO.
- Mentored and supported Junior & Mid-level DevOps Engineers.
- Collected all the metrics with Prometheus.
- Terraformed the Jenkins.
- Formanized and Puppetized all the bare metal.
- Automated a complex release process that involves > 100 GitHub repos.
- Contributed extensively as a maintainer to [Vox Pupuli](#).

Senior Systems Administrator — *National Optical Astronomical Observatory - Tucson, AZ* **October 2011 - October 2014**

- Implemented configuration management from scratch with Puppet and Foreman.
- Wrote dozens of Puppet modules and contributed to many more.
- Constructed & operated the HPC system for the Dark Energy Survey Community Pipeline.
- Completely replumbed the multi-site replicated main science archive.
- Forklift replaced the Science Data Management network infrastructure.

UNIX Systems Administrator — *National Solar Observatory - Tucson, AZ* **June 2010 - October 2011**

- Rebooted & Puppetized the entire IT infrastructure.
- Redesigned the scientific storage archive with replication.

Senior Network Engineer — *Login, Inc. - Tucson, AZ* **September 2009 - June 2010**

- Developed an email to metrics database gateway for power monitoring.
- Managed fiber builds for Metro Optical Ethernet (MOE) installation on client premises.
- Managed customer premises equipment (CPE).
- Helped manage the electrical system upgrade from 208V 3PH to 480V 3PH.
- On-call 24x7

Information Technology Specialist — *Institute for Astronomy, University of Hawai'i - Honolulu, HI* **August 2004 - August 2009**

- Mentored a Junior Systems Administrator.
- Developed the summit to base data transfer system.
- Contributed to the architecture and coding of the Pan-STARRS' Image Processing Pipeline (IPP).
- Network "work package manager" for the PS1 summit network and summit-to-base connectivity.
- Designed and implemented a unique object store / pseudo-filesystem that scaled to billions of objects (files) with multiple redundant copies.
- Built and maintained custom Gentoo images & ebuilds for production servers with `catalyst`.

Information Technology Specialist — *Institute for Astronomy, University of Hawai'i - Hilo, HI* **January 2002 - August 2004**

- Hired and mentored a Junior Systems Administrator.
- Responsible for the Hilo base facilities' network and the UH88 telescope's summit network.
- Deployed and maintained multiple Cisco PIX firewalls.
- Supported telescope operations at ~14,000ft.
- Developed a data acquisition and plotting system for the UH88 telescope's weather sensor data.

UNIX Systems Administrator — *BBox - Beaverton, OR* **October 2000 - July 2001**

- Responsible for Solaris, Linux, and OpenBSD in the production hosting environment.
- Managed border firewalls, IPSEC VPNs, and intrusion detection.
- On-call 24x7

UNIX Systems Administrator (CSci. Dept.) — *Clark College - Vancouver, WA* **January 2000 - June 2000**
Sept. 1998 - Dec. 1999 (student 499 project)

- Responsible for Solaris, HP-UX, Linux, and OpenBSD systems
- Managed ~2500 user accounts