

CHRIS ST. PIERRE

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SUMMARY

Ardent generalist and self-starter with two decades of experience in backend application development and site reliability engineering. I'm a proven technical leader and mentor with extensive operational experience and a zeal for documentation and communication, technical rigor, and building quality into everything I do.

EXPERIENCE

Senior Staff Software Engineer, Petal Card, Inc.

April 2018 - Present

- Own multi-year project to refactor a legacy monolithic code base into microservices, including taking a lead in architectural planning, refactoring portions of the codebase as exemplars, and planning and producing CI/CD infrastructure to support refactoring efforts
- Lead long-running project to migrate all production code from a legacy Hashicorp Nomad environment to EKS, including reworking our AWS strategy, providing and procuring training, updating toolchains, and planning for scale
- Created, implemented, and steward the Engineering-wide Technical Review Process for making and recording sound technical decisions, ensuring production readiness, and learning from our successes
- Provide company-wide senior technical leadership on a huge range of initiatives, including application configuration, code resiliency, incident response and postmortems, and documentation
- Coordinate and lead release engineering efforts, including managing CI, release, and deployment pipelines, tooling, and infrastructure
- Lead code quality efforts as our principal product has grown from two primary contributors to dozens
- Lead implementation and tracking of Engineering-wide DevOps KPIs
- Interim Director of Infrastructure, October 2021 - March 2022

Senior Software Engineer, CI/CD, Cisco Systems, Inc.

June 2014 - April 2018

- Technical lead on CI team providing services to teams maintaining dozens of components for multiple products
- Engineered self-service inventory-driven CI services using Jenkins pipelines and Docker for isolation
- Major contributor to ground-up greenfield overhaul of CI infrastructure, automating deployment of Gerrit, Jenkins, Zuul, and other supporting infrastructure with Ansible
- Core developer of [Rally](#), an open-source benchmarking tool for OpenStack and other systems, 2015-2017
- Participated in both internal and upstream development of OpenStack components, including Nova, Glance, Keystone, Cinder, and Horizon
- Led development of internal REST performance monitoring tool, giving cloud operators greater insight into hypervisor performance

Systems Engineer, Amplify Education

March 2012 - May 2014

- Served as subject matter expert for [Bcfg2](#), coordinating configuration of thousands of servers in dozens of environments on multiple completely separate, often divergent platforms
- Led development on project to enable engineers to provision self-service environments in AWS or private clouds
- Developed Bcfg2 to meet enterprise and community requirements by adding features, fixing bugs, assisting with software releases, and performing general code maintenance
- Gave routine presentations on different aspects of Bcfg2 to various interest groups, ranging from the highly technical to broad executive overviews
- Wrote and maintained CloudFormation templates to automate provisioning new environments and platforms on Amazon Web Services

HPC Systems Administrator, Oak Ridge National Laboratory

June 2010 - March 2012

- Infrastructure Team Lead, July 2011-March 2012
- Led implementation of Bcfg2 for configuration management to replace Cfengine on a network of over 3000 physical and virtual services managed by over 20 administrators across five teams
- Reorganized internal documentation wiki to increase automation and organization

Unix Systems Administrator, Nebraska Wesleyan University

May 2004 - May 2010

- Introduced and maintained clustering and load balancing for LDAP, email, web services, and file services to increase uptime and robustness of services
- Created and maintained configuration management, standardized build, and bare-metal recovery procedures to achieve consistency and reproducibility

EDUCATION

Nebraska Wesleyan University

1999 - 2004

- B.A. in English, French, and Philosophy; minor in Computer Science

TALKS AND PRESENTATIONS

[Writing and consuming REST services](#), LISA 2016 & 2017

[Writing \(micro\)services with Flask](#), LISA 2016

[Docker and LXC](#), LOPSA East Tennessee August 2014

Internal Documentation for Systems Administrators, LOPSA East Tennessee May 2013; Professional IT Conference 2011; Cascadia IT Conference 2011; Southern California Linux Expo 7x (2009); Sysadmin Days Philadelphia 2007; Ohio Linux Fest 2007

System Administration Futures, Cascadia IT Conference 2011

Introduction to LDAP: Provisioning, Managing, and Integrating, Cascadia IT Conference 2011; Southern California Linux Expo 8x (2010); Ohio Linux Fest 2009

Saving the World with Fedora Directory Server, Southern California Linux Expo 7x (2009)

The Guru Is In: Spam, LISA 2008

Fighting Spam with Open Source Tools, Ohio Linux Fest 2009; Southern California Linux Expo 6x (2008); Sysadmin Days Philadelphia 2007; Ohio Linux Fest 2007

Hit the Ground Running: Spam, LISA 2007

PUBLICATIONS AND CONFERENCES

Tutorials Co-chair, LISA 2016

Facilitator, Running OpenStack Workshop, LISA 2015

Chair, USENIX Configuration Management Summit 2013 and 2014

Coordinator, The Guru Is In Sessions, LISA 2010-2013

Facilitator, Real-World Configuration Management Workshop, LISA 2013

Coordinator, "Advancing Women in Computing" panel, LISA 2012 and 2013; "Women in Tech" panel, LISA 2011

Hermanson, Matthew and Chris St. Pierre. "Staging Package Deployment via Repository Management." LISA 2011. http://www.usenix.org/events/lisa11/tech/full_papers/Pierre.pdf

Facilitator, Spam Workshop, LISA 2007 and 2008

OPEN SOURCE CONTRIBUTIONS

Thousands of lines of code to various OpenStack modules, 2014-2018:

http://stackalytics.com/?user_id=stpierre&release=all&project_type=all&metric=loc

Core developer of OpenStack [Rally](#), 2015-2018

Primary contributor to [Bcfg2](#), a configuration management suite, 2011-2014

Created Docker images for the [CentOS Cloud Instance SIG](#), 2014

Contributed various patches, including LDAP support and repository diffing, to [Pulp](#), 2011-2014

UNRELATED ACTIVITIES

Speaker: *Nebraska Bike/Ped Crash Data Analysis*, [Nebraska Bike/Walk Summit](#) 2017

Maintain a comprehensive database of bicycle crash data for Lincoln, NE: <http://stpierre.github.io/crashes/>

Fluent in French