

# caleb miles

## PERSONAL INFORMATION

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LOCATION: Burlington, Vermont

Technical and organizational leader with a strong track record of building and heading teams that deliver products with clear business value. Highly skilled at helping organizations adopt, build, and support cloud services and product offerings.

## EXPERIENCE

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Staff Software Engineer, Spotify

*October 2021 - October 2022*

- Developed a new "software systems comprehension" interview for non-coding roles such as Technical Program Management and Engineering Management candidates which is approachable, rigorous, and designed for the candidate's success.
- Proposed evidence based activities to improve consistency of integration, and long term management across acquisitions undertaken by Spotify.
- Developed technical integration strategies for acquired companies which built trust through the incremental delivery of value which laid the foundation for future, more ambitious, integration activities.
- Provided mentorship and technical direction to engineers across the team.

Senior Software Engineer, Lodestar AI

*April 2021 - September 2021*

- Designed and deployed a secure and scalable architecture for Concourse CI to facilitate a migration away from an inflexible SaaS offering.

Senior Site Reliability Engineer, Hashicorp

*August 2020 - March 2021*

- Leveraged Packer, Vagrant, systemd, and Nomad to create reliable local development environments which also simplified the delivery of bit identical build dependencies to CI environments.
- Embedded with service teams to design and implement user facing functionality within the Hashicorp Cloud Platform Consul (HCP) product.

Senior Member of Technical Staff, VMware

*January 2020 - June 2020*

- Ensured successful resolution of customer escalations into the product organization as an always on call engineer. Updating field support playbooks, and developing operator tooling when necessary.
- Provided end to end architectural briefs on product security for management, and line engineers.
- Conducted design, and code review activities across the product organization.
- Developed prototypes for improvements to software dependency management; and the orchestration of etcd, and other Kubernetes components.

Staff Software Engineer, Pivotal

*May 2019 - December 2020*

- Served as the first engineering anchor, or technical lead, for the PKS BOSH Lifecycle team which was tasked with delivering a conformant distribution of Kubernetes on the Cloud Foundry BOSH Platform, and supporting Kubernetes cluster components within the Enterprise PKS product. Continued to support the team in an advisory, and coaching role after completing my rotation as technical lead.
- Served as the Engineering Lead for pure open source contributions to the Kubernetes project within a dedicated open source contributors team; and conducted office hours for open source users and contributors within the Cloud Foundry community.

Technical Program Manager, Google

*November 2017 - April 2019*

- Supported GKE product excellence efforts across engineering, operations, and support teams.
- Supported product strategy and competitive analysis activities.

- Responsible for maintaining the Kubernetes Enhancement Proposal (KEP) process used for large scale change management within the Kubernetes project.

Senior Technical Program Manager, CoreOS

*July 2016 - November 2017*

- Served on the Kubernetes release team during the 1.5, 1.6, 1.7, and 1.8 releases helping to communicating the status of release blocking issues and coordinate the production of user facing artifacts such as release notes.
- Tried storing status updates within Git in order to minimize the reliance on proprietary tools and to store information for historical analysis.
- Worked to address gaps in staffing by creating the role of secondary release manager.
- Helped to improve the recruitment of future release managers by creating a shadow release manager role.
- Assisted in the creation a special interest group focused on release management and built consensus on the requirements to serve as release manager.
- Prepared summaries of various examples of open source project governance structures for the initial Kubernetes governance committee.
- Scheduled and participated in meetings with technical leaders in other open source communities to learn about their challenges and experiences with project governance.
- Worked to engage downstream consumers of Kubernetes with upstream development efforts.

Senior Software Engineer, Pivotal

*September 2013 to July 2016*

- Utilized Concourse, a novel open source CI system, to improve developer confidence while reducing the time to delivery for features and bug fixes.
- Provided training in agile development practices to Cloud Foundry Foundation partners such as IBM, SAP, EMC, and VMware.
- Provided engineering direction during the development of a new project, delivered in collaboration with an EMC engineering team, to support Cloud Foundry on bare metal.
- Successfully transferred development of a Cloud Foundry service broker for Pivotal Gemfire, an in memory data grid, to the engineering office where Pivotal GemFire is developed. Transferring the project involved training several engineers in new engineering practices for continuous integration, and creating releases.
- Worked with engineering directors, and product team to suspend engineering development of a Cloud Foundry service broker for the Pivotal Hadoop Distribution until such time that additional features were available the underlying cluster deployment tool, Cloud Foundry BOSH, which would drastically reduce the complexity and brittleness of the service broker architecture.
- Maintained and extended the large Ruby codebase of the BOSH Director, the growing Golang codebase of the BOSH Agent, and other utilities.
- Manually applied security patches to address vulnerabilities in the legacy Linux kernel in our machine images.
- Bisected the Ubuntu variant of the Linux kernel looking for a bug in ARP Cache eviction.
- Provided production support for Pivotal Web Services, a publicly available CloudFoundry installation.
- Participated in research investigations for possible extensions to Cloud Foundry Diego to enable persistent data services to be scheduled alongside stateless applications. Cloud Foundry Diego is the container scheduler and lifecycle manager at the heart of Cloud Foundry.
- Assisted Pivotal Labs development teams on client engagements with several large enterprise customers providing expertise in Cloud Foundry components and development practices.

Software Engineer, inktank

*October 2012 to April 2013*

- Exposed a RESTful API for performing administrative tasks in the RADOS Gateway.
- Supported Professional Services engineers.
- Authored API specification documentation.
- Provided code review for community submitted patches.