SKILLS

- Public speaking at variety of technical levels
- Scope customer engagements and deliver on budget Terraform/Packer/Ansible/Puppet/Chef
- HPC cluster administration and user support
- Open source code management and CI/CD
- Python/shell/C/C++/Java/Go

EXPERIENCE

2022 -Senior Software Engineer, Cloud HPC Toolkit, Google (Chicago, IL)

present

- One of first hires for the Cloud HPC Toolkit, growing from 0 to \$XXM per month and taking over as core Team Lead
- Designed and delivered user-friendly automated solution for provisioning multiple Terraform modules with cross dependencies and building custom images with Packer
- Designed and delivered solution for provisioning NVIDIA H100 GPUs in Slurm clusters including documentation for NCCL configuration and benchmarks
- Delivered solutions and product updates based on feedback from high-profile customers, HACIO Consoltantin Cobyle AChielogy, of kloads

2020-2021

- Scope and design high performance computing migrations to Google Cloud
- Manage colleague and partner deliverables during migration engagements
- Create a custom autoscaler for Google Kubernetes Engine to reliably handle Spot preemp-

2019-2020

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- First hire in go-to-market field team for Navops Launch, a rules-based automation engine for bursting Univa Grid Engine (UGE) into major cloud providers
- Lead customer demonstrations in series of Meetups to promote Navops Launch

2012-2019

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- Supervise a team that provides services in support of LIGO research including software integration/containerization, distributed access to data, wikis, and database portals
- Responsible for the execution of the NEMO cluster, a 6,000 CPU-core & 50,000 GPU-core computing resource on which to detect and analyze multiple sources of gravitational waves
- Responsible for managing maintenance and operations budget for the group's data center, including electrical/cooling systems and all contractor supervision and bid solicitation
- Contributed to the development of several grant applications, including a successful NSF award for a \$900k upgrade of NEMO computing cluster
- Lead LIGO's relationship with developers of the HTCondor cluster orchestration software
- Migrated on-premises web portal to highly-available solution using Kubernetes on AWS
- Developed expertise in configuration automation, virtualization, storage technologies and

2002 - 2011

SAMHufatle Studiehut II hand an again to the Chicago and Research Associate. Caltech

- Built cryostats for characterization of low-temperature bolometric detectors
- Designed and built electrical circuitry for operating SQUID sensors
- Deploy astronomical instruments in Hawaii/Chile and analysis of noise-dominated data

EDUCATION

THE UNIVERSITY OF CHICAGO, KAVLI INSTITUTE FOR COSMOLOGICAL PHYSICS 2002-2009 PhD Physics, MS Physics

1997-2002 University at Buffalo - The State University of New York BS Physics, BS Computer Science, minor mathematics summa cum laude