Patrick Murray

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Summary

DevOps Engineer with over 15 years of experience with Cloud Platforms, DevOps Automation, tools, backends and APIs.

Professional Experience

Kaiser Permanente IT (Pleasanton, California)
Staff DevOps Engineer, 2021 - Present

- Facilitated migration of large legacy application (IBM Bluemix) to Azure AKS, worked closely with management, developers and platform staff
- Worked on deployment automation with Jenkins
- Handle regular and production deployments of over 50 node.js kubernetes microservices on AKS
- Troubleshoot and provide deployment support to a large staff of developers. Enable developers to handle regular deployments themselves.
- Implemented modern deployment platform POC with Harness.io, currently in wide evaluation

Teradata, Inc. (Teradata, California)
Staff DevOps Engineer, 2017 - 2020

- Designed and implemented automated installation of a complex hybrid-cloud kubernetes application using Ansible, Terraform and Cloudformation
- Implemented CI/CD pipeline for end to end build and deployment using Jenkins
- Designed and implemented multi-cloud containerized application installation on AWS and Azure with Docker
- Dramatically reduced platform installation time and eliminated manual user-interventions steps

Cisco Systems, Inc. (San Jose, California)
Technical Leader - Software Engineering, 2014 - 2017

- Led efforts for developing a provisioning and management system for Kubernetes container scheduling systems running on top of VMWare on premise clusters
- Developed an automated deployment for reproducible builds of development environment for engineers
- Designed and Implemented a web-based single-page app for demoing live, video-on-demand and DVR video playback on Cisco MOS (Media Origination System)

HGST, Inc. (San Jose, California)
Software Engineer - Tools, 2008 - 2014

- Architected a live data visualization / analytics platform for manufacturing test data using MongoDB, ELK, Express and Highcharts.js
- Grew a team of 2 engineers to 9 over 2 years
- Used Agile development, BDD-style testing, Git and JIRA
- Wrote test data ETL application in C++
- Implemented deployment strategy using CoreOS and Docker on private cloud
- Performed failure analysis of hard drive manufacturing defects

GE Aviation (Grand Rapids, Michigan)
Summer Intern - Systems Engineering, 2007 - 2008

- Wrote scripts for Avionics flight data recorder parameter testing

Michigan Tech. EE/CpE Department (Houghton, Michigan)
Systems Administrator - Research Linux Cluster, 2005 - 2006

- Administered 12-node linux cluster for graduate researchers

Education

Michigan Technological University (Houghton, MI)
B.S. Dual Major Computer Engineering & Electrical Engineering, 2008. GPA: 3.5

University of Strathclyde (Glasgow, United Kingdom)
Study Abroad Student, Winter Session, 2006.

Skills

Experience with Python / Bash / JavaScript / Java / C++
DevOps / Cloud: AWS, Azure, Kubernetes / Docker, Jenkins, Harness.io, Terraform, Packer, Vagrant, Ansible
RedHat / CentOS / Ubuntu / CoreOS / Mac / Windows
Databases: MongoDB, Elasticsearch
Tools: Vim, VSCode, Git / GitHub, SVN, JIRA