Morgan Bauer

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Experience

IBM

Morgan is an Open Source Software (OSS) Engineer for IBM working on Kubernetes. Morgan has extensive experience in the creation of open source software, containerized software development and complex system architecture. Morgan also enjoys working with cross-functional teams, and presenting at conferences and meetups.

Specialties: Containers, Kubernetes, Cloud Computing, Open Source Software Development, Developer Advocacy

Open Source Maintainer

San Jose, CA July 2015 – current

Kubernetes - SIG-Node

Formed SIG-Node-CI group to raise quality of existing end-to-end tests

Analyzing and cleaning up existing sig-node tests to increase quality

Triaging and fix sig-node testing failures to increase velocity

Deprecating and removing failing and superseded testing suites to remove duplication and unnecessary work

Increase visibility of critical test groups by centralizing to a single top-level dashboard

Hyperledger Fabric

Maintained EVM chaincode for fabric by sheparding new committers through contribution process

Implemented ethereum json-rpc 2.0 endpoints for Remix IDE to attach and deploy EVM smart contracts

Mentored LinuxFoundation Intern to create WebAssembly Chaincode for Fabric

Improved code quality of Gossip Protocol by removing race-conditions to re-enable disabled integration testing

Increased Fabric unit testing speed by targeting slowest tests

Implemented Kubernetes and Docker backends for Blockhead Ethereum Service Broker and port from ruby to golang

Kubernetes - SIG-Service-Catalog

Maintainer and founding community member of Service-Catalog an implementation of the OpenServiceBroker API (OSBAPI)

Multi-company collaboration to adopt CloudFoundry service concept among various cloud providers

Implemented OSBAPI to expose thousands of existing IBM CloudFoundry services to Kubernetes

Created CI pipeline in Travis and transition entire pipeline to CNCF infrastructure driven by Prow

Implemented aggregrated APIServer for Kubernetes native object behavior

Ensured multi-architecture compatibility by communicating with stakeholders of PowerPC and S390X

Maintainer of Docker/Moby Engine Core

Maintainer of Docker ClassicSwarm (Docker-native cluster management)

Decoupled the server side API from the engine leading to separate client and server binaries

Triaged community issues by performing fixes and writing documentation

Increased code quality by performing corrective changes and enabling static analysis

Developer Advocate for Open Source

Ongoing

Design & Execute Education on Cloud Native Technologies

Customizing content for internal and external audiences of both technical and nontechnical nature

Demonstrate value of containerization to improve application development and deployment

Encourage contributions back to upstream projects

Grow IBM Open Source committer base by 300 through mentorship and education on Applied use of Git with GitHub Decreased new contributor fatigue to Kubernetes communities with increased documentation on node-e2e-test and videos

on YouTube

Lenovo

Rochester, MN

Software Engineer

October 2014 – May 2015

Manager of Managers (Lenovo XClarity Cluster Management)

Administered secure source code repository and auditing with git, ssh, & gpg

Build automation with maven, jenkins, & guestfish for an end to end pipeline from source code to deployable Virtual Machines

IBM Rochester, MN

Software Engineer

July 2012 - September 2014

Manager of Managers (Lenovo XClarity Cluster Management)

Project bring-up from first principles using maven, artifactory, jenkins

RESTful API design and documentation with Restlet

Componentized program with OSGi bundles and services

Source control administration and education with RTC & git

JUnit, EasyMock, Sonar for code quality at > 80% line and branch coverage

VMControl

Drove unit testing among the team, and increased coverage from 0% to 26% on 200kloc

Software Testing of Legacy Systems with JUnit, EasyMock, & PowerMock

Java, Maven, SVN, & Python

Education

University of Florida

Masters of Engineering in Computer Engineering

University of Florida

Bachelors of Science in Computer Engineering, Minor in Business Administration

Gainesville, FL

2010 - 2012

Gainesville, FL

2006 - 2010

Conference Talks

Kubecon EU 2020: A Journey Through Kubernetes Admission Controller Taxonomy

Hyperledger Global Forum 2020: Hyperledger Fabric 101 Workshop **TruffleCon 2019 Keynote**: Truffle Support For Hyperledger Fabric

OpenSourceSummit Japan 2019: Hyperledger Fabric 101: Permissioned Blockchain Platforms **OpenSourceSummit China 2019**: Creating your First Smart Contract on Hyperledger Fabric

ApacheCon NA 2018: Comparisons of Cloud Native Communities

Kubecon EU 2018: Building a Fault-Tolerant Resource Controller on Kubernetes **CloudFoundry Summit 2018**: Open Service Brokers for the CF Container Runtime **CloudFoundry Summit 2018 Hackathon**: Project Blockhead - Winning Project

CloudFoundry Summit EU 2017: Getting a Handle on Your Microservices: Istio and the Open Source Broker API

Interests

Amateur Radio - General Class License KN6AQX Photography - Travel Snapshots, Nikon D500 DSLR Rust Programming Language