Morgan Bauer

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Experience

Morgan is a Advisory Software 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.

Specializing in: Containers, Kubernetes, Cloud Computing, Open Source Software Development, golang

IBM   **San Jose, CA**
Open Source Contributor   *July 2015 – current*

Kubernetes - SIG-Node Contributor
  Form SignNode-CI group to raise quality of existing end-to-end tests
  Analyzing and cleaning up existing sig-node tests to increase quality
  Triage and fix sig-node testing failures to increase velocity
  Deprecate and remove failing and superseded testing suites to remove duplication and unnecessary work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
  Decreased new contributor fatigue with increased documentation and recorded demonstrations on YouTube
Hyperledger Fabric
  Maintained EVM chaincode for fabric by sheparding new committers through contribution process
  Implement ethereum json-rpc 2.0 endpoints for Remix IDE to attach and deploy EVM smart contracts
  Mentor LinuxFoundation Intern to create WebAssembly Chaincode for Fabric
  Improve code quality of Gossip Protocol by removing race-conditions to re-enable disabled integration testing
  Increase Fabric unit testing speed by targeting slowest tests
  Implement Kubernetes and Docker backends for Blockhead Ethereum Service Broker and port from ruby to golang
Kubernetes
  Committer and community member
  Founding member of service-catalog an implementation of the OpenServiceBroker API
    Create CI pipeline in Travis and transition entire pipeline to CNCF infrastructure driven by Prow
    Implement aggregrated APIServer for Kubernetes native object behavior
    Ensure multi-architecture compatibility by communicating with stakeholders of PowerPC and S390X
Docker - Maintainer of core engine and original swarm
  Decoupled the server side API from the engine leading to separate client and server binaries
  Triage community issues by performing fixes and writing documentation
  Increase code quality by performing corrective changes and enabling static analysis
Developer Advocate for Open Source
  Design & Execute Education on Cloud Native Technologies
    Customizing content for internal and external audiences of both technical and nontechnical nature
    In-depth workshops on how to use
    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

Lenovo   **Rochester, MN**
Software Engineer   *October 2014 – May 2015*

Manager of Managers
  Administer secure source code repository and auditing with git, ssh, gpg
  Build automation with maven, jenkins, guestfish

IBM   **Rochester, MN**
Software Engineer   *July 2012 – September 2014*

Manager of Managers
  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   **Gainesville, FL**
Masters of Engineering   *2010 – 2012*

University of Florida   **Gainesville, FL**
Computer Engineering, Minor in Business Administration   *2006 – 2010*

Conference Talks

Kubecon EU 2020: A Journey Through Kubernetes Admission Controller Taxonomy

Hyperledger Global Forum 2020: Hyperledger Fabric 101 Workshop

OpenSourceSummit Japan 2019: hrefhttps://ossalsjp19.sched.com/event/OVt3Hyperledger 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