Steven Hicks Resume@Stevenkhicks.de Chicago, IL

Summary

Over a decade of progressive professional software development experience in conjunction with more than two decades as a hobbyist developer has pushed me to reduce the burden of support and cost of delivery by writing highly-maintainable software of the highest caliber.

Experience

Rally Health/Optum Digital

2020 - Current

Principal Software Engineer

- Architecting complex systems and decomposing them into clear delivery plans for speed, maintainability, and stability
- Mentoring others in functional programming, system-design, and scala concepts, massively reducing code complexity
- Led a team to build an GraphQL service (With Caliban, ZIO, and Scala) from scratch in 2 months handling 300RPM+ reliably
- Reduced integration time amongst multiple services from 3 months to 2 weeks
- Architected and lead development for a data pipeline to process activities into rewardable earnings.
- · Led initiatives to replace services with 0 downtime
- Caught multiple memory leaks, reducing downtime in production and preventing data loss
- · Production deep dives spanning many systems

Tech Used: Scala, Play, Slick, Postgres, Mongo, Datadog, ZIO, Caliban, Play Framework, Scalatest, AWS, RDS, K8s, Mesos, Lambda, SQS, Golang, SNS, Terraform, Github Actions

Zebra Technologies

2018 - 2020

Lead Software Engineer

- Managed a team of 8 engineers to deliver solutions for the SmartPack project
- Created a generic data library and mongo DSL to reduce development time and simplify test creation
- Implemented automated checks to ensure code coverage
- Led initiatives to decrease the time to production for new services via Giter8 templating
- Mentored others learning Scala and best practices across various timezones
- Assisted with creating a Lunch and Learn series
- Found and fixed memory leaks, in one case, reducing memory footprint from 6gb to 250mb (96% savings)
- \bullet Reduced overall data pipeline memory footprint from 28gb+ to 12gb (60%+ savings)
- Led initiatives to upgrade the Kafka infrastructure from version 0.11 to 2.3 for better reliability and improved developer experience
- Contributed to the effort to migrate from Docker Compose to Kubernetes

Tech Used: Scala, JSON4s, Mongo, Kafka Streams, Scalatest, Docker, K8s

SpotHero

2018 - 2018

Contract Engineer

- Reduced size of weather data in Redshift, by 99.9% from 2.8TB to 5GB without data loss
- Implemented query and data optimizations that reduced data analysis time for business analysts from hours to minutes
- Improved Airflow jobs by adding new functionality and improving maintainability and stability
- \bullet Contributed improvements to the pyResposnys open source library
- Performed profiling and use case analysis to improve long running Redshift query run times by 80%

Tech Used: Python, Airflow, AWS Redshift

HERE

2015 - 2018

Senior Software Engineer

- Drastically reduced cycle and delivery time for features via functional, performance, and stability improvements, increasing unit test coverage and implementing bugfixes
- $\bullet\,\,$ Reduced time from code release to deployment from 2 days to 1 hour
- $\bullet\,$ Led significant initiatives to increase testing coverage and code reuse
- Implemented alerting to to improve stability of a data pipeline
- Served as the communications/education sub-group lead for the Code Review Working Group
- Collaborated with other framework teams to resolve critical bugs
- Maintained existing data pipeline
- Mentored co-workers in working with Scala and ScalaTest

Tech Used:Scala, Redshift, Akka, AWS, EC2, Docker

GoHealth Insurance

2014 - 2015

Software Engineer III

- Automated import, auditing, and validation of data from Excel documents, reducing time to market from 2 weeks to under 1 hour
- Performed deep dive live-site debugging in production systems with AngularJS and

Grails

- · Researched and resolved performance issues involving multiple services and APIs
- Automated manual build process with Ruby, Jenkins, and Mercurial, saving over 4 hours per build, per sprint

Tech Used: Groovy, Grails, Postgresql, AngularJS, Excel COM Automation

Avnet Technology Solutions: Formerly Seamless Technologies

2011 - 2014

Solutions Engineer

- Built, maintained, and enhanced cloud systems via IT automation with HP automation suite (Server Automation, Operations Orchestration, Cloud Service Automation) and VMWare-related products
- Successfully tackled many challenges arising from rigid network and security policies, high pressure demands, and tight deadlines at many medium to large
- Led Lunch and Learn sessions to update coworkers about new products within HP
- Staples: Wrote HP CSA clone fitted to customer demands
- PayChex: Reduced VM deployment time from 1 month to under 1 hour
- UHG: Improved the reliability of the IaaS deployments, reduced the amount of priority bug fix tickets and assisted in the HP-OO9 to 10 migration.
- AT&T: Replaced non-formalized and manual VM build process. Reduced work time from 1 week to 30 minutes per VM.

Tech Used: HP Server Automation, HP Operations Orchestration, HP Cloud Service Automation, VMWare vSphere, Python, Java, Groovy, Bash

Skills

Languages: Scala, Groovy, Java, C++ (Visual, Managed, GCC), C, C# (.NET/MONO),

Scripting/Markup Languages: Python, Ruby, PHP, Javascript, Bash, CSS, XML, XSLT, XPath, MATLAB, ASP.net, HTML, Prolog, Erlang

Frameworks/Libraries: Kafka Streams, Kafka, ScalaTest, Akka, PicoContainer, Jackson, Win32, JasperReports, JUnit, Spock/BDD, ScalaTest, Grails, PowerMock, GraphQL, Hadoop, Dropwizard, Spock, JSON4S, ZIO, KakfaStreams, Caliban

Databases/Data Storage: XML, JSON, MySQL, YML, MS-SQL, Derby, MongoDB, Redshift, Postgres SQL, Couchbase, SQL Server, HERE Datastore

Tools: Maven, New Relic APM, Airflow, Datadog, CI/CD, SBT, Jenkins, GIT, Hq, SVN, CVS, Tomcat, Gitlab, Github, SBT, Gradle, Maven, HPOO, HP-CSA

Cloud Tools Proficiency OpenStack, VMWare vSphere+ESX, AWS ECS, EC2, S3, CloudFormation, Cloudwatch, Redshift, RDS, Docker Compose, GCP, Kubernetes

Projects

- Awesome-kafka: Maintain a list of Kafka resources, github.com/monksy/awesome-kafka
- Serialization Checker: A Scala tool that helps with confirming that data objects match their serialized versions. Encourages example based testing.
- ${\bf Meetup\ Broadcaster}: Scala\ based\ service\ that\ monitors\ for\ new\ events\ on\ Meetup,\ and$ then broadcasts on Twitter and Reddit.
- Financial Market and Strategy Simulation System: Web backend, data stores, custom test framework, distributed computing, highly concurrent code, backtesting of strategies and visualization previous runs.
- Cross Platform EBook Library System : EBook Library Management System: Aggregating, data scraping, and clustering for better indexing and retrieval.
- 404Browser: Copyrighted Web browser with over 100k downloads
- Mobilizon: Open source project for Event hosting/management. Improved the documentation for self installs.
- Self Hosting (Various): Self hosting various open source projects in order to support personal needs for development and entertainment. Sentry, Gitlab, Airsonic, Kavita, NextCloud, Docker Registry, Jenkins, FreshRSS, Speedtest, Portainer

- · Streaming Architectures Intro and Best Practices
- Presentations Graph QL and You (Intro)
 - Caliban Walkthrough
 - Innovation Sprint Talk: Maven Transitive Dependency Conflict Resolution (Tools)
 - Lunch and Learn: Kafka Streams (A POC and and Introduction)
 - . JUG Talk: I didn't know you could do that wth Groovy
 - JUG Talk: Testing With Spock
 - Hack Week Talk: Akka Clustering
 - JUG Talk/Lunch and Learn: Refactoring the Monolith: Alternatives to Microservices
 - Reviewed and provided feedback for Programming Kotlin by Venkat Subramaniam
 - · Group session: Lead group session on Digital ownership and Privacy at jCrete 2019

Education

UNC at Charlotte Masters:Computer Science

2008 - 2010

Elon University

Bachelors Of Science: Computer Science

2004 - 2008

• CompTIA Linux+ Professional
Certifications • HPO-M33: HP Operations Orchestration (2012)