Trampas Kirk
Computer Scientist

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Technical Skills

Skills/Tools	Netflix Tech Stack (Hystrix, Asgard, Ribbon, Eureka, Karyon, Archaius), Couchbase, git, memcached, ElasticSearch, LaTeX, FIX, Java, JMS, maven, PowerMokito, Spring, Jenkins, Design Patterns™, Intellij, Eclipse, Hibernate, cobertura, AutoCAD, SVN, perforce
Operating Systems	Linux, OS X, Unix, Windows, PowerMAX OS, HP/UX, OpenVMS

Professional Experience

Senior Application Engineer
Mainz Brady Group /
Nike, Inc
Mar 2013-Oct 2016

- Helped grow Nike's direct-to-consumer market by developing a suite of microservices in AWS based on Netflix's tech stack to reliably serve product data exceeding a million hits per minute across all services within a devops environment.

- Maintained a non-cloud facade service that aggregates older, less user-friendly services to served many diverse clients in a fast and consistent way.

Senior Application Engineer
Mainz Brady Group (at Nike WHC)
Nov 2013-Dec 2014

- Developed a micro-service based on Netflix's tech stack (Karyon, Ribbon, Hystrix, Eureka, Archaius) to serve business-critical user settings from either a Cassandra cluster, or a foreign micro-service using Ribbon.

- Rebuilt an ElasticSearch index configuration to force its inherent TF-IDF system to index simpler data more effectively improved search relevancy from dramatically useless to highly relevant.

- Maintained and implemented numerous feature requests to a monolithic application built using Java, JBoss, Spring, JMockit to ensure continuity of business.

- Built a program to analyze real world user data to create a memcached cache sized to minimize costs for caching selected data for all users and added that caching ability along with a feature toggle to the monolithic application.

Senior Programmer/Analyst
Citigroup, Global Derivatives Market
Dec 2009-Apr 2013

- Created a multi-threaded pseudo-producer-consumer product that provides realtime message reconciliation in conjunction with another department via hooks into the file system to achieve non-busy-wait monitoring, and dynamic, adaptive message resending capability, and provides an elegant solution to keep the firm in compliance with intraday FINRA reporting requirements.

- Designed and delivered a scripting product based entirely on common UNIX utilities from requirements to production in one week that allowed automatic reconciliation of order execution data between disparate systems automatically, complete with emailed report generation in two days.

- Demonstrated understanding of an unstated need and created an inbound-message validation framework that handles the job so cleanly that no feature has been requested of it since its inception. All existing validation was moved to it upon its release despite being unrequested.

- Introduced mock-object testing to a legacy project, complete with concrete, highly domain-relevant examples that allow other developers to easily follow suit with creating their own mock-based tests.

- Modified the above project to build using maven within the continuous integration server, Jenkins, complete with automated static code analysis tool implementation and unit test coverage measurement that provides fast build failure notification and QA.

Professional Experience Continued

Senior Software Engineer
BenefitFocus.com
Oct 2005-Dec 2009

- Worked with business stakeholders to design and implement complex data translation software incorporating Java, Oracle, Python, XML, and XSLT to process millions of benefits records on a daily basis.

- Coordinated efforts between engineers and configuration management leading to a streamlined build and deployment process for mission critical business components.

- Spearheaded a company-wide plan for improving code quality, requirements, the estimation process, and automated build processes, leading to more rapid development on more readable, maintainable, reliable code.

- Introduced unit tests and EasyMock testing to a legacy codebase, providing a guide complete with relevant, concrete examples that improve code quality and unit test coverage while allowing new developers to easily follow suit.

Software Engineer
MSIS Inc.
Fall 2004-Fall 2005

- Improved the GUI for the simultaneous user tracking program to provide a faster and more helpful interface to the user.

- Customized University of Michigan's radmind project for use by the DoD, including bug fixes and performance enhancements leading to 100% improvement in system restore speed.

- Designed and implemented a simultaneous usage tracking algorithm across Unix and OpenVMS systems allowing the client to reduce the number of licenses to actual simultaneous users.

- Optimized legacy usage gathering scripts, leading to a 90% reduction in the amount of time required to run.

Structural Detailer
King Brothers
Fabricating Inc.
Summer 1999-Fall 2000

- Created detailed structural shop drawings of structural steel and aluminum components for industrial and residential clients so they could be fabricated in-shop and erected on-site.

Education

Summer 2000 - Spring 2004

Bachelor of Science, Computer Science at West Virginia Wesleyan College

GPA: 3.48/4.0 (Overall), 3.7 (CS Major)

Projects and Hobbies

Currently

- Contributed a patch containing heap size enhancements to the coberuta maven plugin project.

- Hobbies include, but are not limited to: books, video games, and running