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Profile

- Over twenty years of practical experience with JVM languages writing both scalable services and embedded software. Current love is Clojure and a functional approach.
- Practical experience with Scala, in addition to over twenty years of core Java development. Five years of Android development spanning applications to framework development.
- Developer of projects spanning scalable systems ingesting large volumes of streaming data down to custom ports of OSGi on embedded devices.

Skills

Currently using: Clojure, Scala, Java, Spark, Kafka, Cassandra, Java, Kubernetes
Previously used: Java, Scala, Storm, OSGi, Jini, Spring, REST, Akka Streams, RabbitMQ
General: Functional Programming, Object Oriented Programming, Android, Embedded Java Development, Service Oriented Architecture (SOA), Distributed Computing.

Employment

10/2017 – Present: Software Engineer (ICT5) at Apple
7/2017 – 10/2017: Clojure Consultant (Contract) at Apple

- Migrating legacy applications to Spark on Kubernetes.
- Designed and implemented a Kafka Connect connector for proprietary Apple data sources now used by multiple teams and projects.
- Used Clojure to push and transform real-time data in an Apache Storm cluster with Kafka and Cassandra at various nodes of the compute topology.
- Automated migration of over 100 repositories from Gitlab to Github with Clojure.
- Dynamically scaling service ingesting ML "decisions" from Apple's proprietary engine through to the UI presentation layer in Oracle using Java/Zookeeper.

2/2017 – 7/2017: Sensity, a Verizon Company
Principal Engineer

- Clojure, Scala, IoT, and big data.
- Splitting a monolithic Clojure server into micro-services.
- Scalable microservices using Scala, Kafka and Akka streams.

6/2012 – 2/2017: Samsung Research America
Staff Engineer II

- Joined the Cloud services team in early 2016 to support the Samsung Pay Promotions platform. Using Spring, Kafka, and RDBS. Using Clojure for generating Kafka load and analyzing logs.
- Lead the team developing the secure container (application and data isolation) for the Knox 2.0 platform. Complete re-design of Knox containers, moving to a design adding a parallel set of components to the Android Multi-User Framework.
- A key architect and developer on the Android virtualization layer of Samsung's Knox 1.0 platform. Part of a small R&D team that saw this through a full product cycle and deployment. Manipulated DEX byte-code to insert classes into hierarchies, to substitute methods with proxies, and to add additional method enforcement on life cycle objects.

3/2007 – 5/2012: aJile Systems Inc., San Jose, CA
Chief Software Architect

3/2006 - 1/2007: Gaia Online Inc., San Jose, CA
Senior Java Engineer

11/2005 - 3/2006: Valaran Corporation, Princeton, NJ
Senior Software Engineer

11/2003 - 8/2005: Kayak Interactive, San Mateo, CA
Technical Director 11/2004 – 11/2005
Senior Software Engineer 11/2003 - 10/2004

5/2001 - 11/2003: Valaran Corporation, Princeton, NJ
Senior Software Engineer

03/1999 - 03/2001: Consulting contracts, Taipei, Taiwan
01/1997 - 01/1999: Burnt Sand Solutions, Calgary, AB
09/1995 - 12/1996: InDC Retrieval Technologies, Inc., Calgary, AB

Education

University of Calgary: Bachelor of Science, Computer Science.