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Accomplished “fighting general” software architect/engineer with diverse background interested in product design and infrastructure challenges of modern service oriented architecture back ends, and machine learning applications with end goal of delivering robust and reliable online services.

Core Competence

Java, Python, Haskell, C++

Server Side, Spring Boot, Guice, PostgreSQL, MySQL, Hadoop, Hive, Struts, AWS
Docker, Kubernete, Micro-Services

Tensorflow, Anaconda, Jupyter

Deep Convolution, Recurrent Neural Networks, and Reinforcement Learning

Bayesian Statistical Learning, Linear, Convex Optimization, Gaussian Processes. Stochastic Processes.
Software 2.0, Training Driven Development (TrDD), Machine Learning/Artificial Intelligence

Object Oriented, and Functional Programming

Software Architecture, Design, Implementation, Analysis, and Refactoring of Existing Applications

Professional services for Software Customization, Mentoring, and Team Leadership

Agile/Lean methodologies

Professional Experience

Apple Leisure Group

2014-2017

Worked on various aspect of the real-time Open Travel Alliance (OTA) compliant hotel search services. Specifically, worked on external facing service for receiving availability and pricing notifications from partner distribution systems; ETL-like Service to transform and update inventory based on incoming notification; Developed a real-time REST API for OTA hotel search compliant for querying of room availability and rates that worked in conjunction with the the latest inventory updates.

Implemented REST compliant API for OTA airline search and pricing as micro service on top of Travelport Technology and Sabre Global Distribution System (GDS) API.

Z2 Live

2013-2014

Lead a Data Engineering project to implement a custom streaming solution for Z2Live's game servers business analytic events with minimal impact on the application. The event subsystem was designed with strict requirements on event loss and duplication and integrated with the company's proprietary transnational services. Events were uploaded to Amazon S3 for use by Business Intelligence (BI) tools using Apache Hive.

IjetOnBoard

2011-2013

Implemented prototype messaging alternatives as satellite connectivity solution of iJetOnBoard's GreenBox Platform. The study compared straight file transfer, ActiveMQ+ServiceMix, ZeroMQ, and Apache Qpid's AMQP 1.0 implementation using WANEM as satellite link simulation. Prototyped were used as demos to investors and guidelines for defining platform's system requirements.

Globys

2009-2011

Participated in Development of Globys's Contextual Marketing Mobile Occasion engine. A custom rules engine intended for monitoring real-time activities of a large set of users in detecting a configurable set of “occasions”. The project used Hadoop and Oracle database to deal with the volume of historical data. In addition to the development responsibilities I also mentored the teams in their transition from .Net to Java/Open Source technology and best practices.

Qpass/Amdocs

2007-2009

Architect and Developer for the redesign of the front-end to Cingular's Qpass Service Management Platform (SMP) using TDD, Spring IOC, and continuous integration techniques. As result of the redesign the application's reliability, management, maintainability, and performance was vastly improved over its predecessor.

Senior Developer on Amdocs's Discovery (catalog) Subsystem in Qpass Retail Suite .

BEA

2006-2007

Apache Beehive Project Senior Developer (for BEA) on Apache Beehive's Web Service Metadata (WSM) and Web Service Control projects. WSM was an implementation of JSR-181, an annotation-driven programming model for web services.

Port Of Seattle

2004-2006

Responsible for design of Port of Seattle's Small Business Roster application. A self-enrolling roster for local small businesses to register their services and be certified as a vendor with the Port of Seattle. The SMBR application uses Apache's Lucene and WebSPHINX to automatically updated vendor's information from vendor's web site and create search indexes based on its contents for Port employees to find appropriate contractors for Port's projects.

Prior to 2004

Various projects in Nimble, Driftwood Software, Mccaw Cellular, ATT Wireless, Adaptive Corp, Touch Communication, Computer Pathways companies.

Education

MSEE, University of Washington, Seattle

Emphasis: Software Engineering, VLSI Chip Design, Signal Processing

BSEE, University of Washington, Seattle

Honors: Cum Lade and National Dean's List