

Xi Zhang

SOFTWARE ARCHITECT · ENGINEERING LEADER

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Hands-on software architect and engineering leader with strong academic background in both computer science and mathematics, with a proven track record building and leading engineering teams in both established and startup environment delivering quality products within limited time frame, passionate and results-oriented problem solver with strong enthusiasm for programming and technology.

Experience

Inpensa Inc.

Lead Architect / Director of R&D

SaaS PRODUCT STARTUP - HIGHLY CONFIGURABLE BUSINESS VALUE MANAGEMENT AND REPORTING PRODUCT

Mar. 2012 - Present

In charge of Architecture and R&D, also played key roles in Project Management, Product Management, Operations and Engagement.

- Designed and led the implementation of the 3-tier distributed platform supporting the highly configurable SaaS product.
- Built great client reputation in agility by implementing and demonstrating a key feature using 20% of expected time during POC.
- Reduced the turnaround time for POCs and out-of-box client provisions from 4+ weeks to 1 week by designing and evolving the configuration driven, client agnostic, multi-tier architecture.
- Reduced development cycle from 5+ days per service to 3 days per service by designing a highly scalable RESTful service based middle-tier framework using Extensible XML Authoring, JAXB and AOP.
- Built and managed a R&D team of 10, which consistently delivered high quality products within limited time frame.
- Reduced SaaS support and deployment cost by 50% with streamlined cloud build, backup and deployment process using AWS.

Cisco Systems

Technical Leader

CISCO SERVICES - REAL-TIME ENTERPRISE BUSINESS INTELLIGENCE ANALYSIS AND VISUALIZATION PLATFORM

Jul. 2009 - Oct. 2011

Led the design & implementation of the search based business intelligence services powered by Solr cluster, which allowed enterprise customers to filter and search through historic data and generate real-time visualization reports based on result data sets.

- Built and led a global located engineering team of 6, responsible for providing high performance middle-ware services.
- Improved team efficiency and team dynamics by optimizing and enforcing the work process and daily review meetings.
- Created a caching hierarchy filter generator as the foundation for 75% of critical features, by implementing a recursion algorithm.
- Cleared a customer adoption show blocker by enabling filter on free text columns with regular expression based multi-level tokenizer.
- Reduced filter item related information matching response time by 85% by implementing distributed object level caching.
- Reduced real time transaction locking time from 10+ minutes to <10 seconds by implementing direct RAM index searcher.
- Eliminated the need of full-time cluster administrator, which subsequently reduced service operation cost by 40% by implementing maintenance scripts and a management console.

Education

Peking University

BEIJING, CHINA

B.S. in Mathematics and Applied Mathematics

- Thesis: A Supervised Learning Approach towards Ranking and Sorting Problems

Sep. 2002 - Jun. 2006

University of San Francisco

SAN FRANCISCO, CA

M.S. in Computer Science

- Award: MSCS Scholarship for top students of the class

Sep. 2007 - Jun. 2009

Publications

A New Method for Spatial Feature Extraction and Classification of Remote Sensing Image

Proc. IGARSS, IEEE Intl. Conf.

XI ZHANG, SHUYI ZHANG, JIANGFENG XU AND JINFEI WANG

pp. 2727 - 2730, 2006.

Feature Extraction and Classification with Wavelet Transform and Support Vector Machines

Proc. IGARSS, IEEE Intl. Conf.

S. ZHANG, X. XUE, X. XU AND XI ZHANG

Vol. 6, pp. 3795 - 3798, 2005

The Construct and Implementation of Complex Document/View System Based on .NET Framework

Computer Engg. and App. Journal

XI ZHANG, SHUYI ZHANG

Vol 1, 2006

Skillsets

Leadership

Team Building, Streamlining Process, Mentoring and Coaching, Project Management

Technical

Core Java, Lucene/Solr/Hadoop, Spring/Hibernate, Node.js/jQuery/Bootstrap/Backbone, Gradle/Git/Jenkins/AWS

Communication

Native or Bilingual Proficiency in Chinese and English