Xi Zhang

Software Architect · Engineering Leader

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Experience

Inpensa Inc.
Lead Architect / Director of R&D

SaaS Product Startup - Highly configurable Business Value Management and Reporting Product
Mar. 2012 - Present / NJ

- Architected and led the implementation of the 3-tier distributed platform supporting the highly configurable SaaS product, sold to 5 large enterprise customers and attracting dozens more in the first 4 years.
- Directed the implementation of the configuration-driven taxonomy and workflow framework, enabling totally different appearances and workflows for different customers on the same codebase yet configurable by non-technical analysts.
- Transformed and ensured the framework followed the principle of abstraction and stayed focused on the business rules, reducing the development cycle from 5+ days per service to 3 days per service.
- Built and managed an R&D team of 10, which consistently delivered high quality products within a limited time frame.
- Prioritized and negotiated with a customer to replace SOW gaps with extra business impacting features, resultingin high quality product delivery with a small team and expanded scope, which put the customer implementation project back on track.
- Reduced SaaS support and deployment cost by 50% with streamlined cloud build, backup and deployment process using AWS.
- Demonstrated technical flexibility by implementing a critical feature to support business need within 24 hours during pre-sale client engagement with a Fortune 100 company, leading to the signing of the first deal.

Cisco Systems
Technical Leader

Cisco Services - Real-time Enterprise Business Intelligence Analysis and Visualization Platform
(via Avesta) Jul. 2009 - Oct. 2011 / CA

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

University of San Francisco
Department of Computer Science
M.S. in Computer Science

- *Award: MSCS Scholarship for top students of the class*
San Francisco, CA / Aug. 2007 - Jun. 2009

Peking University
School of Mathematics Sciences
B.S. in Mathematics and Applied Mathematics

- *Thesis: A Supervised Learning Approach towards Ranking and Sorting Problems*
Beijing, China / Sep. 2002 - Jun. 2006

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 X 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/Java 8, Lucene/Solr/Hadoop, Spring/Hibernate, RDBMS/Oracle, Perl/UNIX, Amazon Web Services
	Maven/Gradle, Hudson/Jenkins, HTML5/CSS3, Node.js, jQuery/Bootstrap, LESS, React.JS, Backbone.js
Communication	Native or Bilingual Proficiency in Chinese and English