**GERRY ZHOU (GUANGXU)**

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**PROFILE SUMMARY**

A multifaceted, astute, and performance driven professional with over 12 years programming and web-based application development experience. Deep understanding and hands on skills of different architectures for web-applications, from data-storage, middle layer to front-end; Strong problem solving ability. Worked extensively in Agile, Hybrid and Waterfall environments. Extreme capability to surpass all expectations and render the optimum level of service regardless of time constraints. An effective team player with a strong ability to present complex solutions clearly and accurately.

**TECHNICAL SKILLS**

**Languages**

* Proficient in: Java, C#, JavaScript, HTML, CSS, SQL, XML/XSLT, Easy Language
* Familiar with: ASP.NET, Perl, Shell, NinjaScript

**Software**

* Database: Oracle, Microsoft SQL Server, MySQL, JDBC, ODBC
* NoSQL: Solr, Redis
* Web: Apache, Tomcat, JBoss, Weblogic, IIS, AugularJS, JQuery EasyUI, REST, SSL, AJAX, JSON, Selenium, Firebug
* Dev Tools: Git, SVN, Ant, Maven, Grunt, Eclipse, ClearCase, JUnit, NUnit
* Platforms: Linux, Microsoft Windows, VMWare, Solaris
* Trading: Tradestation, Ninjatrader, TradeNavigator, FXCM, Forex.com, T4, etc.

**HIGHLIGHTS**

* In-depth knowledge of Agile, Hybrid, and Waterfall environments.
* Strong familiarity with TDD.
* Over 10 years trading experience and programming skills for trading platforms including futures, forex, options, stocks, etc.
* Excellent interpersonal and communication skills, both orally and in writing.
* Management, and problem solving skills; able to prioritize and work within tight deadlines and in a fast-paced work environment.
* Strength to remain calm under pressure; and make swift, correct decisions in emergency situations.

**PROFESSIONAL EXPERIENCE**

**Food and Drug Administration Feb 2009-Present**

**Programmer Staff Fellow**

* Developed, delivered and maintaining the web-based tool FDALabel for reviewers with new drug application at Center of Drug Evaluation and Research
* Developed and delivered the web-based knowledge base tool LTKB for FDA scientists and research community for drug induced liver injury
* Developed, improved and maintaining widely used FDA genomics and bioinformatics tool Arraytrack
* Lead developing web-based knowledge base tool EDKB/EADB for Endocrine Disruptor research
* Lead developer and maintainer of NCTR Liver Cancer Database for rapid carcinogenicity prediction and toxicogenomics model prediction respectively
* Lead developer and maintainer of the Microbial Genomics Database project for food safety evaluation
* Lead programmer for maintenance of Gene Ontology for Functional Analysis (GOFFA), the gene ontology database developed by NCTR/FDA
* Major developer of the Tobacco Constituents Knowledge Base (TCKB) using the FDA standard Oracle RDBMS that enables CTP/FDA regulatory scientists to query, exchange, annotate, update, and analyze tobacco constituents data
* Major developer for SNPTrack, a genomic analysis tool designed for personalized medicine research and regulatory review

**Computer Science Department, University of Arkansas,** Little Rock  **May 2007-Jan 2009**

**Graduate Assistant**

* Designed and implemented An Online Credential Repository for Role-based Delegation (Master’s thesis).
* Proposed, designed and implemented “A Multi-Channel Message Encoding Framework for RBAC with Multicasting” (paper accepted by ICC 2009).
* Key developer for the project Role-based Secure Group Communication Framework using Polymorphic Encryption and Decryption. Designed and implemented the subsystem of Certificate Authority. Led the testing, integration and release of the production to DOD/NSA.
* Proposed, designed and implemented “Enable Delegation for RBAC with Secure Authorization Certificate” (paper published on Computers and Security).
* Attended Blog track of TREC 2007, designed and implemented “Topic Categorization for Relevancy and Opinion Detection”. One of the runs I submitted to NIST gained 6 best overall scales out of 50 scales from 20+ teams all over the world and I was invited to present at NIST.

**Entriq Co., Ltd Dec 2005- Apr 2007**

**Senior Software Engineer**

* Key member for developing JavaScript SDK for reusable web application building in Windows Media Center Edition (MCE).
* Key developer for online pay media MCE Web Applications: Olympics Torino (10 Feet MCE web application for online pay video of Olympics Torino navigation and purchase); Selfcare MCE Eros (MCE web application for customer self-care purchase with online pay media); Digital Store MCE (an MCE web application to provide all-in-one pay media solution for turning online content into cash); Fireswarm (affiliate marketing systems for online pay media).
* Designed and implemented the Web Application Unit Test Framework for MCE.
* Led the White Box Testing for online pay media selfcare application.

**Augmentum Inc. Mar 2005- Dec 2005**

**Software Engineer**

* Development for WINGS (WorldWide Integrated Next Generation Suite), a distributed Public Security System which employed mobile devices as terminals and wireless network as transmission media. I led several submodules business analysis, detailed design; coding, unit testing and integration testing include Mobile Smart Client Authentication and Authorization, Mobile Smart Client NG-TTP, Mobile Smart Client Multi Instance and I18N.
* UI Automation Testing Suite: Key member of automation framework implementation. Group leader for Authentication automation test plan and implementation.
* Internal Training System: a Web-based corporation internal training system. I acted as tech leader to led the system analysis, high level design, coding and integration.

**EDUCATION**

* **University of Arkansas,** Little Rock 2009

Master of Science in Computer Science

* **Tsinghua University** 2005

M.S.E, Software Engineering

* **Nanjing University** 1997

B.S, Biology