GERRY ZHOU (GUANGXU)

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PROFILE

Passionate critical thinker and a well accomplished individual, with over 12 year's skills and experience in programming and web-based application development. Display an outstanding skill and ability in different architectures for web-applications, from data-storage, middle layer to front-end. Adept at software development lifecycles, database analysis and design, designing and developing multi-user information systems, programming tools, and skilled in all levels of testing, including performance, functional, integration, and user acceptance testing

COMPETENCIES

Strong written and verbal communication skills
Productive, very detail-oriented, good team player, organized and self-sufficient
Excellent interpersonal skills with an ability to work as part of a team
Extensive experience in Agile, Hybrid and Waterfall environments and familiar with TDD
Over 10 years trading experience and programming skills for trading platforms e.g. futures, Forex, options, stocks

SKILLS AND EXPERTISE

Customer Service Skills	Decision Making	Software Development
Communication Skills	Configuration Management	Software Engineering
Problem Solving	Software Change	Object-Oriented Design

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.

PROFESSIONAL EXPERIENCE

Food and Drug Administration | Programmer Staff Fellow   **Feb 2009 - Present**

- Develop, deliver and maintain the web-based tool FDA Label for reviewers with new drug application at Center of Drug Evaluation and Research
- Develop and delivered the web-based knowledge base tool LTKB for FDA scientists and research community for drug-induced liver injury
- Develop, improved and maintained 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
- Led the development and maintainance of the Microbial Genomics Database project for food safety evaluation
- Led the maintenance of Gene Ontology for Functional Analysis (GOFFA), of 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

University of Arkansas, Little Rock Computer Science Dept. | Graduate Assistant   **May 2007 - Jan 2009**

- 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
- Assisted with the creation, coordination, and dissemination of office outreach and communication efforts
- Assisted faculty with literature review, data entry, and data compilation as required
- Assisted faculty with the preparation of presentations at national conferences as needed
- Assisted faculty with the development of manuscripts suitable for submission to research journals

Entriq Co., Ltd. | Senior Software Engineer   **Dec 2005 - Apr 2007**

- Collaboratively developed Javascript SDK for reusable web application building in Windows Media Center Edition (MCE)
- Developed 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. | Software Engineer   **Mar 2005 - Dec 2005**

- Participated in the development of WINGS (Worldwide Integrated Next Generation Suite), a distributed Public Security System which employed mobile devices as terminals and wireless network as transmission media.
- Led several sub-modules business analysis, through detailed design, coding, unit testing and integration testing including Mobile Smart Client Authentication and Authorization, Mobile Smart Client NG-TTP, Mobile Smart Client Multi-Instance and I18N
- Key member of automation framework implementation for UI Automation Testing Suite
- Led a group for Authentication automation test plan and implementation
- Played a tech leading role in leading the system analysis, high level design, coding and integration for an Internal Training System (a web-based corporation internal training system).

EDUCATION

University of Arkansas, Little Rock | M.Sc. in Computer Science		**2007 - 2009**
Tsinghua University | M.S.E., Software Engineering		**2003 - 2005**
Nanjing University | B.S. Biology		**1993 - 1997**