

GERRY ZHOU (GUANGXU)



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PROFILE SUMMARY

- Offering 12+ years of solid background in programming and web-based application development. Possesses 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(Scrum), Hybrid and Waterfall environments. Familiar with TDD. Excellent communication and team work; Armed with 10+ years trading experience and programming skills for trading platforms including Futures, Forex, Options, Stocks, etc. Enjoys learning and staying current on bleeding edge technology, systems, libraries, and frameworks.

TECHNOLOGY SUMMARY & 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, AngularJS, 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, Ninjatrade, TradeNavigator, FXCM, Forex.com, T4, etc.

PROFESSIONAL EXPERIENCE

Food and Drug Administration

2009-Present

Programmer Staff Fellow

- Developed, delivered and maintain the web-based tool FDALabel for reviewers with new drug application at Center of Drug Evaluation and Research
- Orchestrated and delivered the web-based knowledge base tool LTKB for FDA scientists and research community for drug induced liver injury
- Facilitated, improved and maintaining widely used FDA genomics and bioinformatics tool Arraytrack
- Conduct 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
- Spearhead 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 Dept., University of Arkansas at 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
- Organized an 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** at Little Rock 2007-2009
M.S., Computer Science
- **Tsinghua University** 2003-2005
M.S.E., Software Engineering
- **Nanjing University** 1993-2007
B.S Biology

REFERENCES

- Available upon request