Richard Yang

SOFTWARE ENGINEER · FULL STACK DEVELOPER · JAVA/ANDROID DEVELOPER

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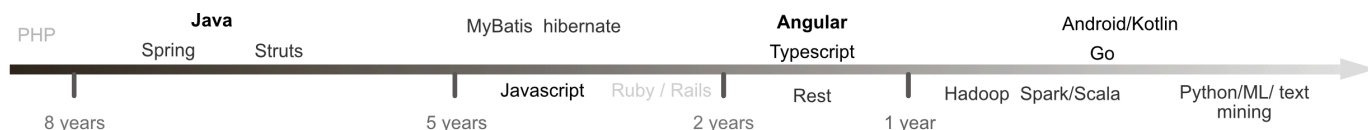
Summary

- Prospective graduate from Waikato University with Master of InfoTech. (Internship available Nov. 2017 and expected graduation time Feb. 2018)

- 8+ years hands-on experience specializing in Java-based backend, web development. Technology enthusiast interested in devising a better problem-solving method for challenging tasks, and open to learn emerging technologies and tools.

- Seeking a new role in Web/Mobile application development and Big Data.

Technical Skills

Java stack	Core Java, J2EE, Servlet, JSP/JSTL, SQL, JPA, SOAP Web Services, RESTful API/Services
	Spring (Core, Web MVC, Data), Hibernate, MyBatis (iBatis), Struts 2
Web	HTML, CSS, JavaScript/ES6, JSON, AJAX, Adobe Flex
	Angular2, jQuery, Typescript, SCSS, Bootstrap, Webpack
OS & Server	Linux (Debian/Ubuntu, RHEL), basic shell skills
	WebSphere, Apache Tomcat, Nginx, DB2 9.7, PostgreSQL, Oracle 11g, MongoDB, Redis
Tools	JUnit, Mockito, SoapUI, Maven, Gradle, Jenkins, Git
Process	Agile methods, Scrum, Waterfall Model
Programming	Python, Kotlin, Golang
Others	Android development, Hadoop MapReduce, Spark

Recent Research/Side Projects

Pattern Detection and Analysis for Police Incident Reports   *In Progress*

WAIKATO UNIVERSITY & NZ POLICE

A Research Project to investigate ways to analyse and identify trends in police incident reports such as family violence and cyber bullying by experiencing with some text mining and natural language processing techniques using real world datasets.

Jago	a simplified JVM implementation following JVM specification in Go programming language
wenjiuba.com	a production web application building with Angular 4.0 and Rest API
Boomcast	an Android app about podcast player
Whatson	an Android app about nearby events leveraging location-based service
Wenjiu	an Android app for a production Chinese Moxibusition information website backed by Spring MVC

Work Experience

Blackboard   *Shanghai, China*

SENIOR SOFTWARE ENGINEER   *Oct. 2015 - Jan.2017*

Blackboard, headquartered in Washington, D.C., is a leading provider of education technology solutions. Learn™ system is widely used in universities all over the world.

RESPONSIBILITIES:

- Focused on the development and maintenance of Blackboard flagship product Learn Classic and SaaS.
- Worked in a Scrum team closely collaborating with other stakeholders, support other teams for some performance or security vulnerable issues.
- Analysed reported issues, replicated the problems in local environments, fixed defects and seek workarounds to support product clients.
- Developed new features for the new generation product utilizing Spring MVC, AngularJS and front-end workflow, mainly focusing on backend Rest APIs and tests.

KEY ACHIEVEMENTS:

- Fixed far more than average numbers of defects with high quality on Learn 9.1 classic during two sprints just after on board, and was recommended as the "star employee".
- Implemented these modules/building blocks: engagement and discussion board, group assignment, goal alignment, adaptive release and event stream.
- Load test on different cloud file systems (Amazon EFS, GlusterFS). Application performance tuning using New Relic and JProfiler.

Bank of Communications   *Shanghai, China*
SOFTWARE ENGINEER / SYSTEM ANALYST   *Apr. 2008 - Jul. 2015*
Bank of Communications is a commercial bank as a leading financial service provider in China.
RESPONSIBILITIES:

- Produced detailed design documents with design alternatives, pros and cons of each approach, architecture design decisions, technologies or vendor assessments and reasons for the recommended technical solution.
- Reviewed code and got developers concerned about good design and maintainability issues, refactored the source code by using design principles and key design patterns.
- Interfaced between business users and development teams, UI & UX design teams, testing teams on critical divergences and trade-offs between requirements and implementations.
- Lead a 5 members scrum team, assigned responsibilities, elaborated user cases, managed project schedules and module scopes.

KEY ACHIEVEMENTS:

- Initiated and developed a hybrid mobile office system for our customer managers, which increased workplace productivity and facilitated customer managers to perform business on the go.
- Built a distributed web scraping system to aggregate the information from online social media, stock exchange, and government websites by using NoSQL databases like Redis, MongoDB and applying Greenplum's in-database machine learning algorithms for data analysis.
- Introduced agile development training programs and applied this methodology to a project for Loan management system, which shortened the time of development and testing, deployed the system to the production environment 1.5 months ahead of the planned deadline.
- Built a J2EE based Loan management system using popular frameworks like Spring, Struts, MyBatis, Apache Axis2, Adobe Flex, Maven and Jenkins CI by applying OO design concepts, design patterns, and best practices.

Education

University of Waikato   *Hamilton, New Zealand*
MASTER OF INFORMATION TECHNOLOGY   *Feb. 2017 - Feb. 2018*

Shanghai Jiao Tong University   *Shanghai, China*
M.S. IN PATTERN RECOGNITION & INTELLIGENT SYSTEMS   *Sep. 2005 - Apr. 2008*

Xi'an Jiao Tong University   *Xi'an, China*
B.S. IN INFORMATION ENGINEERING   *Sep. 2001 - Jul. 2005*

Referees

Lecturers, collegues available upon request