

2014 Bucklands Beach, Auckland, New Zealand

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Summary_

- 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, backend or front-end.

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), Struts2

Web HTML, CSS, JavaScript/ES6, JSON, AJAX, SCSS, Bootstrap

Angular2+, jQuery, Typescript, Webpack, NodeJS, Express, ReactJS, MobX

OS & Server
Linux (Debian/Ubuntu, RHEL), basic shell skills

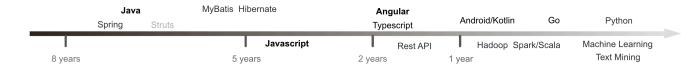
WebSphere, Tomcat, Nginx, DB2 9.7, PostgreSQL, Oracle, MongoDB, Redis

Tools JUnit, Mockito, SoapUI, Maven, Gradle, Jenkins, Git

Process Agile methods, Scrum, Waterfall Model

Programming Python, Kotlin, Go language

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 by experiencing with some text mining and natural language processing techniques using real world datasets.

<All source code can be found on Github>

Weta A visual workflow envioronment for text analytics integrated with Spark ML and other NLP, text mining libraries

Jago a simplified JVM implementation following JVM specification in Go programming language

wenjiuba.com a production web application built with Angular 4.0, Typescript, Webpack and Spring MVC for Rest API

Work Experience

3D Printing Systems

Auckland, New Zealand

Oct. 2017 - Now

FULLSTACK DEVELOPER

RESPONSIBILITIES:

- Design a robot position tracking system on Android to estimate the real-time pose utilising Computer Vision technology.
- Build visual programming environment for K12 education by Blockly and IoT techniques.
- Gamify the swam robots collaboration using Unity 3D WebGL engine.

TECHNOLOGIES USED

Android, OpenCV, NodeJS, Express, ReactJS, MobX, Blockly, MongoDB, Webpack, MQTT, SVG

Blackboard Shanghai, China

SENIOR SOFTWARE ENGINEER

Oct. 2015 - Jan.2017

Blackboard, a leading provider of education technology solutions. LearnTM system is widely used in universities all over the world.

November 15, 2017 Chao Yang · CV

RESPONSIBILITIES:

- Focused on the development and maintenance of Blackboard flagship product Learn Classic and SaaS.
- Worked in a Scrum team collaborating with other members, support other teams for performance or security vulnerable issues.
- Analysed reported issues, replicated problems in local environments, fixed defects and seek workarounds to support our clients.
- Developed new features for the next 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: discussion board, group assignment, Collaborate video conference integration.
- · Load test on different cloud file systems (Amazon EFS, GlusterFS). Application performance tuning using New Relic and JProfiler.

TECHNOLOGIES USED

Java, Spring MVC, PostgresQL, AngularJS, Typescript, Grunt

Bank of CommunicationsShanghai, ChinaSOFTWARE ENGINEER / SYSTEM ANALYSTApr. 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, deployment 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.

TECHNOLOGIES USED

Java, Spring MVC, MyBatis, Axis2, DB2, Adobe Flex, jQuery, WebSphere, MQ, ESB. Python, Redis, MongoDB

Education

University of Waikato

MASTER OF INFORMATION TECHNOLOGY

Hamilton, New Zealand

Feb. 2017 - Feb. 2018

Shanghai Jiao Tong University

M.S. IN PATTERN RECOGNITION & INTELLIGENT SYSTEMS

Shanghai, China Sep. 2005 - Apr. 2008

Xi'an, China

Xi'an Jiao Tong University

B.S. IN INFORMATION ENGINEERING

Sep. 2001 - Jul. 2005

Referees_

- Dr. Shaoqun Wu / shaoqun.wu@waikato.ac.nz

Other lecturers, colleagues available upon request

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