

Chao Yang

SOFTWARE ENGINEER · FULL STACK DEVELOPER · JAVA/ANDROID DEVELOPER

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Summary

- 8+ years hands-on experience specialising in Java-based backend and web application development.
- Full stack developer comfortable with multiple technology stacks: JavaEE/Spring stack, MEAN stack, modern front-end workflow.
- Technology enthusiast interested in devising a better problem-solving method for challenging tasks, and open to learning emerging technologies and tools.
- Seeking a new role in Web/Mobile application development, backend or front-end.

Technical Skills

Web	JavaScript/ES6 , HTML, CSS, JSON, AJAX, SCSS, jQuery, Bootstrap Typescript , Angular2+, Webpack, ReactJS, MobX
Backend	Core Java, J2EE, Servlet, JSP/JSTL, SQL, JPA, SOAP Web Services, RESTful API/Services Spring Boot, Hibernate, MyBatis (iBatis), NodeJS, Express/Koa
Mobile	Android Development , Kotlin, Material Design
OS & Server	Linux (Debian/Ubuntu, RHEL), shell scripting Tomcat, Nginx, MySQL, PostgreSQL, MongoDB, Redis
Testing & Devops	JUnit, Mockito, Maven, Gradle, Git, Docker, Concourse, Bamboo, Jenkins
Lifecycle process	Agile methods, Scrum, Kanban
Others	Python, Go language, Hadoop MapReduce, Spark

Recent Projects on GitHub (chaoyangnz)

Pattern Detection and Analysis for Police Incident Reports

Waikato Uni & Waikato 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.

Weiv	a pragmatic front-end view library for modern component-oriented development applying Virtual DOM, MobX and template rendering
Jago	a simplified JVM implementation following JVM specification written in Go programming language
Weta	a visual workflow environment for text analytics integrated with Spark ML and other NLP, text mining libraries
wenjiuba.com	a production web application built with Angular 4.0, Typescript, Webpack and Spring Boot / MVC powered REST APIs

Work Experience

Stuff Limited

FULL STACK ENGINEER

Auckland, New Zealand

Apr. 2018 - Now

RESPONSIBILITIES:

- Update existing application build scripts and configuration files following twelve-factor methodology to further dockerize portal backend applications and Fuse ESB.
- Compose deployment pipelines and migrate build process from Bamboo to Concourse CI server.
- Write automatically-triggered CI scripts to build deployable docker image to AWS ECR registry.
- Refactor traditional tomcat powered applications to Spring Boot based microservice architecture.
- Look after OAuth and OpenID Connect based Identity provider server to fit SSO/SLO requirements across Stuff websites.

3D Printing Systems

FULL STACK DEVELOPER

Auckland, New Zealand

Oct. 2017 - Feb.2018

RESPONSIBILITIES:

- Designed a robot positioning Android App to estimate real-time poses utilising Computer Vision technology.
- Built visual programming environment for K12 education by Blockly and IoT techniques, including over 40 customised blocks to control robots.
- Developed a virtual Map on page to show robot positions and motion in a real-time way and a dashboard to visualise data from multiple sources
- Built front-end UI using ReactJS, MobX for application state management and a code execution sandbox using Web Worker and JSInterpreter
- Developed backend REST APIs powered by NodeJS, Express and MongoDB.

TECHNOLOGIES USED

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

Blackboard

Shanghai, China

SENIOR SOFTWARE ENGINEER

Oct. 2015 - Jan.2017

Blackboard, 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 collaborating with other members, support other teams for performance or security vulnerable issues.
- Developed new features for the next generation product utilizing Spring MVC, REST API, AngularJS and front-end workflow.

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”.
- Application performance tuning using New Relic and JProfiler.

TECHNOLOGIES USED

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

LIVE DEMO

<https://preview-learn.blackboard.com> (ask me for login account if required)

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.

TECHNOLOGIES USED

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

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

Referees

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

Other lecturers, managers, team members available upon request