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Summary _

- 8+ years hands-on experience specialising in Java-based backend 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_

Core Java, J2EE, Servlet, JSP/JSTL, SQL, JPA, SOAP Web Services, RESTful API/Services Java

Spring (Core, Web MVC, Data), Hibernate, MyBatis (iBatis), Struts2

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

Angular2+, ¡Query, Typescript, Webpack, NodeJS, Express, ReactJS, MobX

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

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

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

Lifecycle process Agile methods, Scrum, Waterfall Model

Programming Python, Go language

Android development, Hadoop MapReduce, Spark Others

Recent Projects on GitHub ___

Pattern Detection and Analysis for Police Incident Reports

Waikato University & 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.

a pragmatic front-end view library for modern component-oriented development applying Virtual DOM, MobX and Weiv template rendering

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

a visual workflow environment for text analytics integrated with Spark ML and other NLP, text mining libraries

a production web application built with Angular 4.0, Typescript, Webpack and Spring Boot / MVC powering REST APIs wenjiuba.com

Work Experience

3D Printing Systems

Auckland, New Zealand FULL STACK DEVELOPER Oct. 2017 - Now

RESPONSIBILITIES:

- Design a robot positioning Android App to estimate real-time poses utilising Computer Vision technology.
- Build visual programming environment for K12 education by Blockly and IoT techniques, including over 40 customised blocks to control robots.
- Develop 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
- Build front-end UI using ReactJS, MobX for application state management and a code execution sandbox using Web Worker and **JSInterpreter**
- Develop backend REST APIs powered by NodeJS, Express and MongoDB.

KEY ACHIEVEMENTS

- Push the product into Beta release 3 months ahead the planned deadline.
- Refactor the existing solution architecture and greatly simplify dependent external technologies.
- Solved some key technical issues: code execution sandbox, positioning system.

CHAO YANG · CV MARCH 7, 2018

TECHNOLOGIES USED

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

http://app.kaisclan.ai (ask me for login account if required)

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.
- 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, 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 Apr. 2008 - Jul. 2015

Shanghai, China

Sep. 2005 - Apr. 2008

SOFTWARE ENGINEER / SYSTEM ANALYST

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.

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 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, ¡Query, 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

M.S. IN PATTERN RECOGNITION & INTELLIGENT SYSTEMS

Xi'an Jiao Tong University Xi'an, China Sep. 2001 - Jul. 2005

B.S. IN INFORMATION ENGINEERING

Referees.

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

Other lecturers, colleagues available upon request

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