

# Zheng (River) Yang

SOFTWARE ENGINEER · DATA ANALYST

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*"Embrace Complexity and make it easy to use!"*

## Education

### M.ASc. in Computer Engineering

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

May. 2014 - May. 2016

- Programming in C++, Java, Python, OpenCV, Spring Boot, Spring Cloud, SQL, MATLAB, Mathematica, Bash, Shell, Linux, Oracle, NoSQL, Scrum Development, Distributed System, Architecture, PCL.
- Graduated in Master of Computer Engineering. The main focus of my research was Point Cloud-based Human Skeleton Tracking for the medical equipments.

### B.S. in Software Engineering

WUHAN UNIVERSITY

Mar. 2010 - PRESENT

- Honor Degree, Outstanding Graduates
- Excellent Rank 5%

## Experience

### Software Engineer & Data Analyst

St. John's, Newfoundland

JOHNSON INSURANCE, RSA

Jul. 2016 - Present

- Java Software Developer & Data Analyst working in an Agile Team (Scrum) on projects of Finance and Insurance management.
- Projects with AngularJS, React, Redux, JSF, Spring MVC, Spring Secure, Websphere EJB/MQ, Java/J2EE/Javascript, Hibernate, JPA.
- Implements Cloud and Continuous Integration based on AWS, CGI, Jenkins (Git)

### Co-Founder & Technical Lead

St. John's, Newfoundland

LOKI PRO INC. (START-UP)

Jun. 2017 - Present

- Technical Lead, Team Leader, Scrum Master in Agile Web Development
- Provide Web Applications based on MERN(MongoDB/NoSQL, Express, React-Redux, Node) or MEAN stack.
- Native IOS and/or Android App with React Native + Google Firebase
- Provide Continuous Integration (CI) solutions based on Jenkins Blue Ocean and Travis CI.

### Java Development Engineer (Intern)

WUHAN, CHINA

HUAWEI TECHNOLOGIES - WLAN TEAM

Apr. 2013 - Nov. 2013

- Utilized JavaScript, CSS3 and HTML5 for creating the presentation layer.
- Implemented privilege control to give different permissions to users with different roles, based on OAuth Bearer, Jersey Filter, and designed the supportive data structure.
- Designed and developed Restful web services using SpringBoot, SpringMVC, MongoDB.
- Obtained Grade A (Excellent) in Co-op Assessments

## Presentation

### 13th NECEC(IEEE NL section) (Computer Engineering Conference)

St. John's, NL

PRESENTER FOR <3D POINT CLOUD BASED HUMAN SKELETON IDENTIFICATION>

Nov. 2015

- This paper presents a new perspective-independent tracking algorithm based on 3D point cloud data built from depth images. This unsupervised 3D point cloud approach allows the tracking of humans and the automated identification of human skeletons from the point cloud data.
- The algorithm segments humans from the scene without initialization which allows true perspective-independent person monitoring and skeleton tracking.

## Writing

## Simple Microservices System with Spring-Cloud Tutorial in 2018, 8 Chapters

Medium Story

FOUNDER & AUTHOR

Dec. 2017 - in progress

- Nice and clear instructions for developers to gradually get familiar with the Cloud computing and distributed system

## React + Redux tutorial: Full stack Web/Native App integrated with Google Firebase

Medium Story

AUTHOR

Jan. 2018

- Technical Tutorial for Full-Stack and Front-end developers to ramp up the cutting edge of front-end techs

## Programming

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Proficient	<b>Java EE, Spring-Boot, Linux, Docker, React &amp; Redux, React Native, NodeJS, Python,</b>
Full-stack	<b>React + Redux + GraphQL, Single-page apps in MERN (MongoDB/NoSQL, Express, React, NodeJS),</b>
Backend/Cloud	<b>REST-API, Web Services, Spring Boot, Docker, Microservices, Token-based Auth(OAuth2),</b>
Server	<b>JBoss EAP, WebSphere, Tomcat, Nginx, Apache,</b>
CI	<b>Git Flow, JIRA, BitBucket, SVN, Jenkins, Travis CI,</b>
Adapt in	<b>Data Analyst, SQL Procedure, UI/UX, Scrum Agile,</b>
Computer Vision	<b>PCL, OpenCV, OpenGL,</b>
Research Interest	<b>AWS, Microservices,</b>