Zixiang Xian *(Mr.)*

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Education

Tianjin University of Finance and Economics, Tianjin, China	September 2010-June 2014

Bachelor of Engineering in Software Engineering (GPA:*88/100*; Rank: *top5%*)

Concordia University, Montreal, Quebec	September 2019-Present

MASc in System Information Security(thesis-based, focus on Machine Learning)

Research Interests: Approximation Inference, Variational Inference, Expectation Propagation, Deep Neural Network

Work Experience

Kingsoft Office Software Corporation Limited (WPS), Zhuhai, China

Senior Software engineer	September 2016-August 2019

Development of Online preview Service WPS on Web (drive.wps.cn): converting Office documents to HTML, pdf, image, etc.

- Used Service Provider Interface programming to implement configurable lazy load document format conversion service
- Utilized Java8 Concurrent Library to parse the document structure and concurrently convert the formats
- Reduced the page load time by block loading: the first page has displayed the instant it is converted, remaining pages are loaded asynchronously via ajax
- Used Raphael and canvas in HTML to plot the complex vector graphics in Office documents, compatible with IE8 and above

Web Office: Online Collaborative Editing (web.wps.cn)

- Adopted ReactJs to develop the frontend of web office excel mobile version
- Applied jade as the template engine, used less to extend CSS, used gulp to implement automated build of web engineering with Webpack bundle JavaScript files
- Implemented self-adaption according to the mobile screen resolution

Development of back-end software of mobile service

- Adopted golang to develop the back-end RESTful API
- Applied Redis as the cache database, used docker to build distributed applications
- Provided large scale back-end API for Android APP(WPS Office) and web clients, refactored code based on object-oriented style

Software Development Center, Industrial and Commercial Bank of China, Zhuhai, China

Software engineer	July 2014-August 2016

ICBC Peru Local Clearing System: cooperative clearing front-serve

- Generated secret key with triple DES and implemented dual encryption using RSA private key to clear data;
- Invoked WebService with SOAP protocol to communicate with the remote server
- Achieved high availability by load balancing with Oracle RAC

Publication

Ultrasonic Detection System of Engineering Truck Loading Capacity Based on STC12C5A60S2 Microcontroller, first author, **Modern Computer**, 11107(2013)

Research Experience

A truck loading detection system based on MCU   March-November 2013

> Collected data from the ultrasonic sensor using the Round Robin algorithm, analyzed the Linear variation of distance data, lighted the LED when reaching the threshold

Http SerialNet module based on coolsand embedded platform   August-September 2013

> Completed the C programming based on HTTP protocol stack, implemented functions include retransmission failure, automatic transfer, etc.

Development of Telephone Marketing System   July 2013

> Implemented instant messaging with Delphi that encapsulates internal messaging protocol to define the message types (public or private) and then forwards to the client via the server

Skills

Programming Language: C/C++, Java, Javascript, golang, python

Programming Framework: Android, Linux, Node.Js, SpringMVC, ReactJs

Enterprise Middleware: IBM WebSphere, IBM WebSphere MQ

Database: MySQL, Oracle, Redis, SQL Server

Others: git, npm, Webpack, gulp, reverse engineering on Android APK, docker

Accomplishment

Best New Employee award at ICBCSDC(3%)	2016
The employee of the Month at ICBCSDC(3%)	2015
Second Class Scholarship at university(5%)	2011&2012
Champion in the University Computer Program Design Competition	2012
First Class Prize in China Undergraduate Mathematical Contest in Modeling	2012