

Yuhao(lan) Liao

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<https://ian-liao.github.io/react-online-resume/#home>

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Technical Capabilities

- Skills: Backend Development, Frontend Development, Machine Learning
 - Languages: python2/3, Java, Javascript, Shell, C/C++, HTML, CSS
 - Libraries: Django, Flask, Guice, Guava, Junit, Numpy, Pandas, Sklearn, JQuery, ReactJS
 - Tools: Docker, Git, Vim, Gradle, RabbitMQ, Jenkins, Anaconda, virtualenv, Postman
 - Databases: MySQL, PostgreSQL, MongoDB, Redis, Memcache
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Education

Computer Science, Master of Science

Sep. 2018 – present

Memorial University of Newfoundland

Computer Science, Bachelor of Science

Sep. 2010 – June 2014

Beijing Jiaotong University

Work Experience

Verafin St. John's NL

Apr. 2019 – present

Software Developer

Cooperative Education Work Term

- Implement multiple analytic modules using Java8 and Guava to provide data for information cards on the frontend
- Write unittest for every new feature using Junit and Mockito to enhance code coverage
- Effectively help new team member to set up dev environment and constantly share useful tips and tools with coworkers

Gengmei, Inc. Beijing China

Nov. 2017 – May 2018

Backend Developer

Worked as a backend developer to apply the microservices architecture to build products including PC site, mobile site, IOS client and Android client.

This is a distributed project using Python, Golang, Redis, Elasticsearch, Sqitch, Django framework

- Implemented underlying RPC unit for communication of the microservice-based application
- Refactored PC site pages, including index page, live streaming page, doctor page, hospital page
- Refined the popup greeting strategy using Redis list to present advertisements in a rotation matters

Youku, Inc. Beijing China

Aug. 2015 – May 2017

Backend Developer

**Mobile API system: a system to provide backend service for Youku IOS and Android client
This is a distributed project using Python, Memcache, Nginx, Varnish, Tornado Framework**

- Implemented and maintained new requirements and APIs of play, index page, channel page, subchannel page
- Applied different types of High Availability strategies such as cache, fuse and hot standby to provide more stable API for IOS and Android clients
- Collaborated with maintenance engineer to upgrade system, handle malfunctions and analyze log
- Guaranteed the availability with no significant malfunctions on underlying services to support 300~400 million play times per day including all mobile platforms

Youku mobile app new statistic system

This project displays statistics such as VV, UV, play length and play completeness by a series of graphs using Python, Bootstrap, Highcharts, MySQL, Django framework

- Designed the common Highcharts interface to utilize different pages such as channel analysis, video analysis and device analysis
- Wrote raw SQL statement to filter data provided from Big Data team
- The app is released on Apple AppStore and Google Play Store, please search: Youku

TravelSky Technology, Beijing China

July 2014 – Aug. 2015

Web Developer

PaaS – a new generation of user service system constructed by Operations Center. It relies on the underlying private cloud infrastructure to provide resource application and management services for the whole company.

This is a combination of work using Python, Bootstrap, MySQL, Flask framework

- Developed and refactored business module in order to organize over 2,000 services according to their product lines
- Investigated and implemented service module including our core resources such as database and networking
- Implemented management, relocation and support modules with both front-end and back-end

Oracle License report system: A web application for transferring license report paperwork to online reporting workflow

This is a full-stack project using Python, Bootstrap, MySQL, Flask framework

- Communicated with teammates to finish a unified authentication system based on SSO
- Designed the database structure in accordance with 3NF
- Designed the architecture of workflow and UI

Reference

Dr. Adrian Fiech

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