

# 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, AWS, Postman, Anaconda, virtualenv
  - 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

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## Work Experience

**Verafin St. John's NL**

**Apr. 2019 – present**

**Software Developer**

**Work Term/Part-time**

- Implemented multiple analytic modules using Java8 and Guava to build evidence for information cards of alerts on the frontend
- Wrote different CaseFixes methods and related unittest to filter out the bad ATM location data which largely reduces the number of false positive alerts
- Adapted patch files to create or update configuration in the database and used hydra query to confirm the data is correct throughout all warehouses

**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

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## **Reference**

Dr. Adrian Fiech

Department of Computer Science

Memorial University of Newfoundland

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