Yuhao(Ian) Liao

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Technical Capabilities

- Industry Knowledge: Web Development, Machine Learning, Computer Vision
- Languages: Python, Java, Javascript, Shell, C/C++, HTML, CSS, Matlab
- Libraries: Django, Flask, PyTorch, Keras, Numpy, Pandas, Sklearn, JQuery
- Tools: Docker, Git, Vim, Gradle, RabbitMQ, AWS, Postman, Anaconda
- Databases: MySQL, PostgreSQL, MongoDB, Redis, Memcache

Education

Computer Science, Master of Science   **Sep. 2018 – Sep. 2020**
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 – Dec. 2019**
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

- 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
- Implemented Naïve Bayes model and integrated Netease Yidun interface to build the antispam service

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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Memorial University of Newfoundland

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