

Michael Lin

<https://michaellin.me>
michaellin@ualberta.ca | 780.716.4073

SKILLS

LANGUAGES

Proficient:

Python • JavaScript • HTML

Familiar:

Ruby • Java • CSS

FRAMEWORKS & TOOLS

Proficient:

ReactJS • NodeJS • Flask

PostgreSQL • Docker

Familiar:

Rails • Django • Terraform • Ansible

AWS • Softlayer • Bluemix

INDUSTRY KNOWLEDGE

Scrum • Agile Methodologies

LINKS

Github:// ExiaSR

LinkedIn:// michaellinlc

EDUCATION

UNIVERSITY OF ALBERTA

COMPUTER SCIENCE, BSC

SPECIALIZATION

Science Internship Program

Expected May 2020

COURSEWORK

UNDERGRADUATE

Web Applications and Architecture

Software Process and Product

Management

Introduction to Software Engineering

e-Learning, Adaptation, Analytics

Human Computer Interaction

Reinforcement learning

File and Database Management

Computer Networks

Operation System Concepts

Computer Organization and Architecture I

EXPERIENCE

IBM | SOFTWARE ENGINEER

May 2017 – Current | Toronto, ON, Canada

- Built web applications with front-end technologies such as ECMAScript 6, SASS, ReactJS as needed.
- Developed and scaled microservices for Cognitive Class Virtual Lab Environment with NodeJS and Rails, supporting over 1M users worldwide.
- Performed automating testing, continuous integration, and continuous deployment of different services with Github Enterprise, Travis CI, Docker, Ansible, Terraform, Cloud Foundry, Rancher, Artifactory, etc.
- Designed and maintained monitoring infrastructure with Elasticsearch, Prometheus, and Grafana to monitor server utilization, database performance, etc.
- Developed data pipeline and analytic reporting API consisting of organization-wide data to automate data collecting process and widely used by multiple teams.
- Instrumented user activity and analyzed data across different IBM products/partner products.

YY INC. | SOFTWARE ENGINEER INTERN

Jul 2016 – Aug 2016 | Guangzhou, China

- Developed scripts to automate and increase the efficiency of the building process. Used by a team of 10.
- Refactored the codebase to use the MongoDB C++11 driver from the old C driver. Improved code readability and maintainability.
- Optimized MongoDB query to increase performance by 10%.
- Developed unit tests for several modules.
- Supported QA engineers in testing and debugging new release.

PROJECTS

BRO-SSESSMENT | MEASURING CAMARADERIE IN ONLINE FORUM

Feb 2019 - Current

- Developed a system to assess camaraderie through the analysis of peer-to-peer interaction in the online discussion forum. Using data from the Pepper Project, a learning management system research project from the University of Toronto.
- Researched on various topics in NLP, such as sentiment analysis, lexical entrainment, and latent semantic analysis, and applied them to measure connectedness between users.
- Studied users behavior in the discussion forum to produce behavior metrics.
- Analyzed multiple measurements and compared result against the classroom community scale, a measurement for the sense of community, of the discussion forum from the Pepper Project.

COLLABORATIVE LIST | PROJECT MANAGEMENT TOOL

Feb 2017 - March 2017

- Lead a team of 5 people to develop a project management tool for scholar and faculty to keep track of the research material (books, articles, journals, videos, etc) for meeting and seminar. Practiced weekly scrum meeting to
- Designed system architecture and implemented backend with Flask, MongoDB, and Elasticsearch. Designed UI and built frontend client with ReactJS.
- Built CI/CD pipelines for containerized applications with Docker.