

# Yinglun(Leo) Suo

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## Work Experience

### Manitoulin Transports

2021/04 - 2023/08

Junior Web and Mobile Developer

Mississauga, ON, Canada

- Migrating company's internal management website to a **Vue and Python Django-based microservices architecture**. Maintain and implement 10+ new features to improve business logic, user experience and operational efficiency.
- Perform optimization for new web's shipping notice report feature. Solved the problem of **API latency on searching/filtering large amount data**. Increased **50%** of performance on managing over **30k records** of report data from DB.
- Update new user registration process to integrate with **Google reCaptcha v3**. Prevent server from spam and abuse.
- Improve website security by implement **advanced 2FA process** including **email/phone notification** with security question for password reset request. Upgrade workflow with **VPN authentication** to prevent unauthorized action.
- Customize **Vue-Quasar table component**, providing column searching, column name appearing and sorting adjustment with saving option. Integrated with **Google Cloud Console API** to export data in google spreadsheet format.
- Refactor company's shipping notification feature. New system provide **email/text notification with GIF and URL**. Integrate Twillio to perform **url shortening**. Increased user subscribe rate on the first month of deploy by **10%**
- Design and implement new **rating system** for collecting over **10,000 new/old active users' experience**. Developed an **automated feedback solicitation mechanism** based on user activity, ensuring regularly reviews requirements from users. Architected a DB table that stores and tracks rating history to help review team performances on migration.
- Participat in design company's file transmission system. Implemented Perl script to access company server. Perform file search and transfer to IBM AS400 iSeries database. Deployed on **k8s with cornjob** transfer **200+ doc/month**.

## Education

### Western University

2023/09 - 2024/08 (Expected)

Master of Engineering in Electrical and Computer Engineering - Software Engineering

London, ON, Canada

- **Relevant Courses:** Web Application Develop (88), Cloud Computing (89), Machine Learning (91), Data Management and Application(100), Digital Image Processing (97)

### University of Waterloo

2016/09 - 2020/06

B. Math in Computer Science and Statistics Double Major

Waterloo, ON, Canada

- **Relevant Courses:** Software Design and Architectures (88), Computer Organization and Design (84), Introduction to Machine Learning (83)

## Project

- **AI-Enhanced Course Teaching Assistant Agent** (In progress supervised by Dr.Apurva Narayan.)
  - Implementing a pre-trained model integrated with a vector database, including course content.
  - Perform text embedding to collected course material and related field material to fulfill vector database. Including the model's response accuracy and reducing the model's deepfake.
  - AI agents will provide contextually relevant explanations to student questions, enhancing understanding and engagement.
- **Online-Book Store**
  - Design and development of an online bookstore system. Included book searches, cart management, and secure payment transactions with JWT for secure authentication. Designed an admin interface to provide user/web content management.
  - Cloud Deployment. Led the development of a cloud-based infrastructure utilizing Docker, Kubernetes, and Google Cloud Platform (GCP) to enhance the scalability and reliability of deploying and maintaining the Book Store project online.

## Skills

- **Programming Language:** Javascript, Python, Java, C/C++
- **Database:** MySQL, PostgreSQL, Firestore.
- **Tool:** Git, Docker, k8s, GCP, AWS, Jira

Last Updated on May 10, 2024