

# Yinglun(Leo) Suo

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## Work Experience

### Manitoulin Transports

2021/04 - 2023/08

Web and Mobile Developer

Mississauga, ON, Canada

- Migrated the company's internal management website from Perl to a **microservices architecture using Vue and Python Django**. Conducted daily maintenance and debugging to enhance user experience and operational efficiency.
- Optimized the website's shipping notice report feature by transitioning from SQL queries to the **Django QuerySet API**, reducing website loading latency by **50%** while managing over **30,000 records** of report data from the database.
- Improved website security by **implementing VPN authentication and an advanced 2FA process** (i.e. email/phone verification with security questions for password reset requests), which effectively preventing unauthorized actions.
- Customized the **Vue-Quasar table component** to enable searching and sorting by column names, with a saving feature. Integrated with the **Google Cloud Console API** to export reports in Google Spreadsheet format.
- Revamped the company's shipping notification system by integrating the Twilio API, enabling **automated, real-time email/text notifications with GIF and URL**. User's subscription rates **increased by 15%** in first month of deploy.
- Developed a rating system to **collect user feedback across 10,000+ accounts**, implementing an **automated feedback prompt** during the login process. **Optimized prompt frequency** based on user activity to ensure the collection of authentic and detailed feedback. Archived rating histories aiding in help reviews of system migrations performance.
- Designed automation script performing **file system traversal** on the specified server drive storage locations. Send matched files to the IBM AS400 iSeries database. Deployed on kubernetes Cronjob **transferring over 200 doc/month**.

## Education

### Western University

2023/09 - 2024/12 (Expected)

Master of Engineering in Electrical and Computer Engineering - Software Engineering

London, ON, Canada

### University of Waterloo

2016/09 - 2020/06

B. Math in Computer Science and Statistics Double Major

Waterloo, ON, Canada

## Project

### NLP model Comparison and Optimization on News Text Classification

2024/01 - 2024/04

- Leveraged cutting-edge models (**BERT, RoBERTa, XLNet, ELECTRA, DeBERTa**) and transfer learning on the **AG-news dataset**, utilizing NVIDIA RTX 4090 with FP16 acceleration and **extensive hyperparameter tuning** to improve accuracy and reduce training time. Employed **AdamW optimizer** and implemented **continuous evaluation** and **early stopping** techniques to enhance training stability, generalization, and prevent overfitting.
- Demonstrated RoBERTa as the top model with **highest accuracy, fastest convergence, and training efficiency** in both large and small-scale groups. With significant **accuracy improvements** and efficiency gains over older models.

### Online-Book Store

2023/09 - 2024/04

- Designed and developed an online bookstore system with book searches, cart management, and secure payment transactions using **JWT for authentication**. Integrated Google Firestore for robust data management.
- Utilized Google Firestore's plugin for **multi-media account login** options to enhance user accessibility. Also designed an **admin interface** for comprehensive user and web content management.
- Developed a **cloud-based infrastructure** using **Docker, Kubernetes, and Google Cloud Platform (GCP)**, enhancing the **scalability and reliability of deploying and maintaining** the Book Store project online.

## Skills

- **Programming Language:** Python(Django, scikit-learn, TensorFlow, PyTorch), Javascript(Vue, Node), Java
- **Database:** MySQL, PostgreSQL, Firestore.
- **Tool:** Git, Docker, k8s, GCP, AWS, Jira