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 prevents unauthorized actions.

- Customized the **Vue-Quasar table component** to enable searching and sorting by column, allowing users to save progress. 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**. Sent periodical feedback requests 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. Sent matched files to the IBM AS400 iSeries database. Deployed on kubernetes Cronjob **transferring over 200 doc/month**.

Education

Western University   2023/09 - 2024/08 (Expected)
Master of Engineering in ECE - Software Engineering   London, ON, Canada
- With 4-8 Month Coop starting from Sep 2024

University of Waterloo   2016/09 - 2020/06
Bachelor of Mathematics 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**. 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. Had 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