

# Fred Zhao

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## EDUCATION

### Simon Fraser University

*Master of Engineering*

Burnaby, BC, Canada

Sep 2020 – Dec 2022

### Beijing University of Posts and Telecommunications

*Bachelor of Logistics Engineering*

Beijing, China

Sep 2016 – Jun 2020

## EXPERIENCE

### Logistics Coordinator

*Panex Courier & Branding Ltd.*

Apr 2024 – Present

Richmond, BC, Canada

- Manage and optimize WMS/ERP systems for order and inventory management, ensuring data accuracy and efficient workflows.
- Conduct competitor pricing analysis in Excel and developed tailored quotations for different customers, supporting sales strategy.
- Generate and analyze financial and operational reports in Excel, improving cost control and delivery performance, and enabling the company to recover over \$30,000 in losses.
- Cooperate with clients and carriers to ensure on-time order fulfillment, resolve discrepancies, and improve customer satisfaction.

### Web Developer

*GoodBot*

Nov 2023 – Apr 2024

Vancouver, BC, Canada

- Developed and enhanced web and mobile UI components in React, collaborating with designers using Figma.
- Implemented new features and optimized front-end performance for a responsive user experience.

### Software Engineer Intern

*Ericsson*

Aug 2019 – Dec 2019

Beijing, China

- Developed and improved a Java application for conversion between Google Protocol Buffers and XML/CSV files.
- Wrote scripts in Python, leveraging threading library, to perform load testing of users making over 100 concurrent requests, reporting metrics such as login time, query time, start time and end time.
- Leveraged MobaXterm for project management, Git for version control, and Pytest for test driven development.
- Collaborated cross-functionally with engineers and product managers to ensure timely delivery of software components, maintained and updated applications following agile principles.

### Research Assistant

*Institute of Computing Technology, Chinese Academy of Sciences*

May 2019 – Dec 2019

Beijing, China

- Collaborated within a research team focused on thyroid tumor prediction using deep learning techniques.
- Processed medical images to generate mask images and JSON files, optimizing data for further research.
- Leveraged PyTorch and TensorFlow to train models to predict thyroid abnormalities through X-ray images, performed literature research to support the team.

## TECHNICAL SKILLS

**Languages:** Python, Java, C, SQL, R, HTML, CSS, JavaScript

**Libraries/Frameworks:** Spring, Spring Boot, React, Vue.js, Pytest, PyTorch, Keras, Numpy, Pandas, Matplotlib

**Tools/Databases:** Power BI, Tableau, Git, VMware, AWS, Jupyter Notebooks, IntelliJ IDEA, VS Code, MySQL, Redis

## PROJECTS

### Human Resource Management System | *Java, Vue.js, Spring Boot, MySQL, Redis*

Aug 2023

- Built a full-stack web application for organizations to management employee information.
- Employed Vue.js and Element to build web front-end based on an open source front-end scaffolding.
- Created CRUD operations with Spring Boot and MyBatis-plus, designed and implemented a RESTful API.
- Employed MySQL as the relational database to store and update data, optimized authentication using Redis to cache the token to improve access speed.

### Aerial Object Detector | *Python, PyTorch, Detectron2, Google Cloud*

Sep 2022 – Oct 2022

- Enhanced a deep learning model for aerial object detection, improving accuracy from 59% to 86.6%.
- Implemented data augmentation and hyperparameter tuning for performance optimization.
- Trained and deployed the model on Google Cloud Platform.