

# Fred Zhao

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## TECHNICAL SKILLS

**Supply Chain Planning & Operations:** Demand Forecasting, Inventory Management, WMS/OMS Operations & Optimization, Logistics Planning, S&OP Support, Cost Analysis, KPI Tracking (OTIF, Fill Rate, Inventory Turnover)

**Data Analysis & Reporting:** SQL, Python (Pandas, NumPy), R, Excel (Pivot Tables, VLOOKUP, Power Query), Data Cleaning, Data Preparation & ETL, Trend Analysis, Dashboard Development

**Systems & Tools:** ERP/WMS Systems, Tableau, Power BI, Google Analytics, MySQL, BigQuery, Git, AWS

## CERTIFICATIONS

**Google Data Analytics Professional Certificate (v2)** — Google/Coursera

2025

## EDUCATION

**Simon Fraser University** Sep 2020 – Dec 2022

*Master of Engineering* Burnaby, BC

**Relevant Coursework:** Data Mining, Project Management, Deep Learning Systems, Intelligent Systems.

**Beijing University of Posts and Telecommunications** Sep 2016 – Jun 2020

*Bachelor of Engineering in Logistics Engineering* Beijing, China

**Relevant Coursework:** Operations Research, Supply Chain Management, Logistics Cost Analysis & Control, Procurement Management, Database Systems.

## EXPERIENCE

**Logistics Coordinator** Apr 2024 – Present

*Panex Courier & Branding Ltd.* Richmond, BC

- Configured core WMS/OMS business logic (pricing, billing rules, inventory/location management) and integrated carrier APIs (e.g., UPS/FedEx) to streamline shipping operations.
- Utilized Advanced Excel/Google Sheets (Pivot Tables, VLOOKUP) to reconcile operational and financial data, identifying and recovering over \$30,000 in revenue losses.
- Maintained high operational efficiency by optimizing order routing within WMS and collaborating with the warehouse team, ensuring over 99% shipping accuracy.

**Software Engineer Intern** Aug 2019 – Dec 2019

*Ericsson* Beijing, China

- Developed Python automation scripts to parse and analyze large-scale log data (XML/CSV), reducing manual data processing time by 40%.
- Performed load testing and performance analysis for high-concurrency user requests, visualizing metrics such as response time and throughput.
- Collaborated in an Agile environment, utilizing Git for version control and ensuring code quality through test-driven development.

## PROJECTS

**Multi-Agent Route Optimization Simulation** | *Python, NumPy, Matplotlib, Algorithms* Sep 2022 – Dec 2022

- Developed a simulation system to optimize routing efficiency by solving the Multi-Agent Path Finding (MAPF) problem, simulating warehouse AGV scheduling scenarios.
- Implemented and compared high-performance algorithms (A\*, Conflict-Based Search) to minimize travel time and prevent collision in high-density grid maps.
- Conducted comparative analysis on algorithm performance metrics (throughput, path length, calculation time), identifying the optimal solution for scaling agent quantity.

**Aerial Object Detector (Deep Learning)** | *Python, PyTorch, Google Colab* Sep 2022 – Oct 2022

- Implemented a Convolutional Neural Network (CNN) to detect objects in aerial images, achieving an accuracy improvement from 59% to 86.6%.
- Processed and augmented large image datasets to resolve class imbalance issues and improve model generalization.
- Utilized Python and PyTorch for model training, hyperparameter tuning, and performance evaluation.