

# Yulun Feng

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## Education

### Master of Science, Information Systems

Northeastern University, Boston, MA

Sep 2024 – May 2026

### Bachelor of Science, Computer Science

Western University, Ontario, Canada

Sep 2019 – May 2024

## Work Experience

### University of Electronic Science and Technology of China

Junior Data Analyst

May 2022 – Oct 2022

Chengdu, Sichuan, China

- Designed a data cleaning and visualization system in Python, reducing processing time by 50% compared to MATLAB and increasing data comparison speed by 70%. Utilized Python libraries like Matplotlib and Seaborn to enable real-time reliability assessments and help teams quickly identify outliers and operational inefficiencies.
- Constructed an artificial neural network (ANN) in Python with PyTorch and TensorFlow, leveraging self-supervised learning to analyze and model correlations between input variables and the target output. This ANN was optimized for predictive accuracy, enabling scenario testing and prediction under various parameter configurations.
- Deployed self-supervised learning techniques to enhance the ANN's feature extraction capabilities, ultimately refining its predictions and enabling the identification of optimal conditions for achieving the best output scenarios.

### China Post Logistics

Junior Automation Engineer

May 2021 – Jul 2021

Xiamen, Fujian, China

- Improved OCR accuracy for mail barcode recognition by 30% through the deployment of machine learning, enabling effective handling of bad-quality images, especially for damaged and blurry barcodes.
- Improved operational efficiency by 15% by developing and overwriting RPA scripts with the UiBot framework, resulting in faster response and more accurate processing of mail-related tasks.
- Contributed to automation routine by designing and implementing workflow user models, significantly reducing manual interventions and streamlining logistics operations for improved overall efficiency.

### China Mobile

Junior Data Analyst

May 2020 – Jul 2020

Xiamen, Fujian, China

- Used Python Scrapy to collect data from China Mobile's online fraud detection system, enhancing detection speed by 20% for fraud prevention analysis.
- Participated in network traffic analysis to identify unusual patterns and potential fraud indicators, contributing to a more robust detection system and supporting proactive fraud mitigation efforts.
- Implemented data cleaning and organization procedures in Excel to process and standardize large volumes of collected data, enhanced data reliability.

## Projects

### AI Store Search App

Sep 2023

- Developed the server-side application using the CROW C++ framework, ensuring a scalable and robust infrastructure capable of handling high volumes of search requests and data processing.
- Designed and implemented the backend database using MySQL to efficiently store and manage items and attributes, supporting rapid retrieval of data and supporting seamless user queries.
- Integrated the ChatGPT API with a custom web interface built on a full-stack platform, utilizing advanced NLP for item tokenization and enable users to perform searches with ambiguous expressions, creating a more user-friendly experience.

### Campus Map App

Jan 2023

- Developed an interactive campus map application in Java, leveraging JSON for data storage and parsing to manage campus points of interest (POIs) and enhance user navigation across buildings and floors.
- Developed real-time pathfinding algorithms to provide users with optimized routes, supporting features like building and floor switching to streamline campus exploration.
- Designed a personalized search feature that utilizes custom tagging and history tracking, allowing users to save frequently visited locations and improve their navigation experience through a responsive, user-friendly interface.

## Publication

- Yulun Feng, et al. A Dimension-Reduced Artificial Neural Network Model for the Cell Voltage Consistency Prediction of a Proton Exchange Membrane Fuel Cell Stack. Available on [ResearchGate](#).