Yulun Feng

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# WORK EXPERIENCE

## **China Post Logistics (Fujian)** May 2021 – Jul 2021

## Junior Automation Engineer Xiamen, Fujian, China

## Improved OCR accuracy by 30% for mail barcode recognition through the introduction of machine learning algorithms, addressing low-quality images such as damaged or blurry barcodes.

## Developed and debugged RPA scripts using the Uibot framework and Python, which enhanced operational efficiency by 25%, leading to faster processing of mail-related tasks.

## Created process models to automate routine tasks, significantly reducing manual interventions and streamlining workflows.

## **China Mobile** May 2020 – Jul 2020

## Junior Data Analyst Xiamen, Fujian, China

## Spearheaded a fraud detection system that improved detection speed by 50%, using Python to process, and analyze large volumes of platform data.

## Reduced manual data comparison time by 30% by developing automated data visualization tools in Python, enabling faster identification of anomalies and operational inefficiencies.

## Developed Python crawlers to gather data and used Excel for manual verification, significantly improving data reliability and reducing human errors by 20%.

**RESEARCH**

[**A Dimension-Reduced Artificial Neural Network Model for the Cell Voltage Consistency Prediction of a Proton Exchange Membrane Fuel Cell Stack**](https://www.researchgate.net/publication/365436714_A_Dimension-Reduced_Artificial_Neural_Network_Model_for_the_Cell_Voltage_Consistency_Prediction_of_a_Proton_Exchange_Membrane_Fuel_Cell_Stack)

 May 2022  Chengdu, Sichuan, China

## Contributed to a 15% increase in the accuracy of cell voltage consistency predictions for fuel cell stacks by enhancing data collection and preprocessing methods.

## Collaborated in the design and training of a MATLAB-based Artificial Neural Network (ANN) model, leading to more precise voltage distribution predictions and improved system reliability.

## Optimized hyperparameter tuning processes, improving the performance of the ANN model by 10% through cross-validation techniques.

# PROJECT

[**AI-Based Store Search App**](https://github.com/365cent/ai-store-search-cpp/)

 Sep 2023  London, ON, Canada

## Implemented and optimized search algorithms using trie data structures and the TF-IDF algorithm. Established a Flask server and MySQL database for backend functionality while ensuring system reliability through comprehensive unit and integration tests.

## [**University Map Demo**](https://github.com/365cent/western-map/)

 Jan 2023  London, ON, Canada

Developed an interactive campus map system using Java, incorporating custom tagging, pathfinding algorithms, and browsing history tracking to enhance user navigation and search efficiency.

## EDUCATION

M.S.

Information Systems

**Northeastern University**

 September 2024 - June 2026  Boston, MA, United States

B.S.

Computer Science

**Western University**

 September 2019 - June 2024  London, ON, Canada

# SKILLS

# JavaScript

# HTML

# CSS & Bootstrap

# PHP

# MySQL

# C

# C++

# Java

# Python

# Node.js

# ARM Assembly

# MIPS Assembly