**Yulun Feng**

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**Education**

**Master of Science, Information Systems** Sep 2024 – May 2026

Northeastern University, Boston, MA

**Bachelor of Science, Computer Science**  Sep 2019 – May 2024

Western University, Ontario, Canada

**Work Experience**

**University of Electronic Science and Technology of China** May 2022 – Oct 2022

Junior Data Analyst 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** May 2021 – Jul 2021 Junior Automation Engineer 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** May 2021 – Jul 2021 Junior Data Analyst 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**](https://github.com/365cent/ai-store-search-cpp)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**](https://github.com/365cent/western-map)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](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).