

# LOW WEI HONG

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## Summary

Applied ML & NLP engineer with 6+ years of experience building real-time, production-level data systems. Skilled in web crawling and fast prototyping, with exposure to Web3 and smart contract development (Solidity).

## Experience

**OKX, Singapore**

Nov 2022 – Aug 2024

### Senior Data Scientist

- Built and owned Crawlbase, a centralized web crawling platform powering 40+ active crawlers across markets.
- Designed real-time monitoring dashboards integrating data from YouTube, Twitter, and crypto exchanges, enabling KOL tracking and BD insights.
- Automated lead generation from YouTube crypto influencers, delivering leads to global BD teams.
- Fine-tuned and deployed 13+ translation models, cutting vendor translation costs by 35%.
- Built and deployed a news intelligence distribution system, achieving >95% accuracy in matching news to internal teams.
- Built web crawlers targeting crypto exchanges, KOLs, and DeFi news — contributing to OKX's global Web3 outreach.

**Shopee, Singapore**

June 2019 – June 2022

### Senior NLP Data Scientist

- Led spam detection across 6 markets with precision logistic regression models, maintaining >98% precision.
- Trained FastText and ElectraBERT classifiers to categorize Indonesian items, achieving >90% accuracy.
- Built SPU classification models for laptops and maintained >97% accuracy across regions.
- Owned 7 daily ML pipelines using Airflow for production monitoring and updates.
- Deployed web crawlers across e-commerce and social media platforms including Taobao, JD, and Instagram.

**Shopee, Singapore**

Aug 2018 – May 2019

### Tech Lead, Local Business Intelligence

- Applied BERT and Naive Bayes for product classification with >90% accuracy.
- Delivered and owned Shopee's LPG (Lowest Price Guaranteed) system end-to-end: crawling 120K items daily, maintaining pricing databases, and monitoring claim rates.
- Reduced LPG claim rate by 50% within 2 months through system improvements

## Education

**Georgia Institute of Technology, Atlanta, GA**

M.S. in Computer Science (Machine Learning specialization)

GPA 4.0/4.0

Jan 2025 – Dec 2025 (Expected)

### Stanford Online

Artificial Intelligence Professional Program: NLP with Deep Learning

Sept 2020 – Dec 2020

### Nanyang Technological University

B.Sc. (Hons) in Mathematics and Economics

Aug 2014 – May 2018

### QuantInsti

Executive Program in Algorithmic Trading (Certificate of Excellence)

Apr 2018 – July 2018

### Charles University, Prague

Exchange Program

Sep 2016 – Jan 2017

## Skills

Programming	: Python, SQL, Hive, C++ , R
Web Scraping	: Scrapy, Playwright, Puppeteer, Selenium, Requests
Machine Learning	: Sklearn, XGBoost, LightGBM, Keras, PyTorch
Concepts	: Machine Learning, Deep Learning, Data Analysis, OOP, Algorithm Trading
Cloud & DevOps	: AWS (EC2, S3), Docker
Visualization	: Tableau, Plotly, Matplotlib
Collaboration	: Rapid Prototyping, Cross-functional Collaboration
Language	: English (professional), Mandarin (native), Malay (intermediate)
Blockchain/Web3	: Solidity (basic), Crypto analytics, DeFi data crawling (YouTube, Twitter, exchanges)