

CHEN YU WANG

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EDUCATION BACKGROUND

UTRECHT UNIVERSITY

MSc of Applied Data Science

Utrecht, Netherlands

Sep 2020

NATIONAL TAIWAN UNIVERSITY

Bachelor of Economics

Taipei, Taiwan

Sep 2012 - June 2016

BRIEF INTRODUCTION

- Experienced data scientist, planning to finish the master at UU and starting on the orientation year.
- **4.5+ years of working experience** including 3+ years as a **Data Scientist & Data Engineer** in Shopee and 1+ year as Data Scientist trainee in Institute for Information Industry.
- **4+ programming experience in Python**, and familiar with JavaScript, SQL, Git, PyTorch, and Scikit-Learn.
- Have experience in analyzing company's business model, including user behavior, product sales performance, and competitor's product to help the company find useful insight and business strategies by data-driven application.
- Own the experience for leading data science project, and end-to-end algorithm application and development.
- Also, able to be independent and efficient, willing to learn new skills and knowledge.

HARD SKILL

(* = very proficient)

Programming: ✓ Python* ✓ JavaScript ✓ JQuery

Data Engineering: ✓ Linux ✓ Git ✓ Google Cloud Platform ✓ Apache Airflow (ETL)

Data Science: ✓ PyTorch*, Keras ✓ Scikit-Learn ✓ Machine Learning (DL*) ✓ Business Intelligence Analysis

SQL & Data Base: ✓ MySQL*, Presto* ✓ ELK (Elastic Search) ✓ Mongo, Redis

PROJECTS

- ✓ Crop Type Prediction (RVO.nl Government project)
- ✓ Pricing Center (Algorithm Design, NLP Search Engine, ETL Data Pipeline)
- ✓ Image Recognize (Computer Vision, Segmentation, Classification)
- ✓ Order Prediction
- ✓ Recommendation

EXPERIENCE

Master Thesis Project, RVO.nl

Netherlands

The Netherlands Enterprise Agency

Long & Wide: A Deep Learning Network for Crop Type Prediction

Aug 2020 - July 2021

- Propose a Long & Wide deep neural network (LWN) and provide its implementation with Pytorch.
- Helping the RVO.nl to research the potential approach to predict crop types per parcel in advance. The Long & Wide network (LWN) works to capture the crop type rotation pattern in the Long component and achieve the generalization to include large-scale of categorical input without excessive feature engineering effort, by jointly training several nonlinear feature embedding layers in the Wide component (Embedding, MLP).
- The experiment results show outstandingly increased the prediction accuracy over the traditional supervising models.

Senior Data Scientist/Engineer, Data Science Team, Shopee **the leading e-commerce platform in Southeast Asia and Taiwan (SE:NYSE)**

Taiwan

Pricing Center

July 2019 – Aug 2020

- The person in charge for Pricing Center.
- Lead the team to build a pricing center transforming order data into insights that go far beyond just numbers and charts; Furthermore, the center offers series of application such as searching engine, product order prediction, aiming to make smarter pricing, promotions, and merchandising decisions with up-to-date competitive insights to help the commercial side to drive profitable growth.

Lowest Price Guarantee (Price Comparison, Product Matching Algorithm)

July 2017 – Aug 2020

- As a role of core developer in LPG project conducted for algorithm training and roadmap structure design.
- The project use several popular technique in data science field like natural language processing (NLP), Convolutional Neural Network (CNN), AutoEncoder (AE), Elasticsearch (ES) and Inverted-Index structure for text and image recognition.

Warehouse Management System (Shopee24)

July 2017 – May 2018

- As a role for Full Stack developer constructed Warehouse Searching Engine, Outbound Module, Return Pipeline, and warehouse real-time monitor dashboard with low-latency and high-efficiency design , powered by Flask (Python) and JavaScript.
- Using Apache Airflow as a workflow management tool to create ETL data pipelines, accompany with the cronjob to track the execution for multiple workflows. Maintain efficient Multiple API and Crawler development building the solid bridge between data warehouse and end-user applications.

Python employee training lecturer

- Shopee Taiwan - Python workshop lecturer, teaching and sharing Python experience for the inner employee.

Data Science Trainee, Big Data department, Institute for Information Industry

Taiwan

Recommendation system

July 2016 - Feb 2017

- Design and build the recommendation system with Item-Based Collaborative Filtering Algorithms(CF), improving the social media user experience.

Crawler & API-Toolkit

- Design and build several crawlers, scraping data from E-commerce platforms like Taobao, PChome and Yahoo, supporting for the following analysis. Web scraping with Python to catch driver's open data from Driver Information Service for Vehicle monitoring system model.
- Develop package for machine learning API which is written by Python, like text preprocessing, language translation and some implementation for OCR which is based on Tesseract and Pillow.

ACTIVITY

HackNTU , Organizer

Taipei , Taiwan

- Organized Hackathon, a design sprint-like event in which computer programmers and others are involved in idea development, including designers, subject-matter-experts. Dec 2015 - July 2016

PERSONAL INFORMATION

- Email jimcurrywang@gmail.com
- Github <https://github.com/JimCurryWang>

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