

Yu-Tang Shen

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SUMMARY

Software engineer proficient in JavaScript, React, SQL, Java, and Python. Skilled in data structures, algorithms, and problem solving.

PROFESSIONAL EXPERIENCE

Machine Learning Intern

Pure Storage

June 2022–August 2022

Mountain View, CA

- Provided in-depth insight on products' lifetime with Field Lifetime Estimator, a customized ML model

Machine Learning Engineer

Winbond

January 2021–August 2021

Hsinchu, Taiwan

- Enhanced marketing department's efficiency by 200% with the **Named entity recognition** project
- Presented trends by leading discussions with patent experts and building a website with **JavaScript** to visualize patent relationships in Neo4j database

Software Engineer

Cellmax Life

July 2019–November 2019

Taipei, Taiwan

- Improved worker efficiency by 96% and eliminated typos by building a **Python GUI** application
- Boosted efficiency on querying by 98% with the **MySQL** database project
- Facilitate database CRUD operations with a responsive **Vue.js** frontend interface

EDUCATION

Master's, Computer Science | *San José State University* | CA, USA

May 2023

- Grader for CS149 – Operating Systems

Bachelor's, Computer Science | *The Chinese University of Hong Kong* | Hong Kong

May 2019

SKILLS

Languages

Java, C, Python, SQL, HTML, JavaScript, React, Shell script, Android Java

Technology and tools

Git, Agile Methodology, Docker, AWS, GCP, Linux, FastAPI

PROJECTS

Field Lifetime Estimator (FiLtEr)

Pure Storage

- Utilized **Drain3** and **TF-IDF** algorithm to preprocess large corpora
- Customized a **Big Bird attention model** and trained with testing logs, achieving 3-month error margins

Named Entity Recognition Project

Winbond

- Sped up data labeling by 90% through word segmentation and embedding for synonym tagging
- Fine-tuned **ALBERT** NER model with customized labels to detect trending technologies in news
- Visualized trend with **Power BI** word cloud, enhancing marketing team's efficiency by 200%

Report Generating Application

Cellmax Life

- Developed a GUI application that queries data using **Google Sheets API** and renders medical reports
- Adopted **multi-threaded processing** to render charts and reports simultaneously

MySQL Database

Cellmax Life

- Designed a **MySQL** database satisfying medical data storage regulations and **BCNF**
- Implemented the database and imported existing data in Google Sheet
- Delivered a responsive front-end interface with **Vue.js** for non-technical users to access the database