

Yu-Tang Shen

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EDUCATION

M.S., Computer Science, *San José State University*

May 2023

- Grader for CS 149 - Operating Systems
- HKANC 2022/2023 Scholarship recipient

B.S., Computer Science, *The Chinese University of Hong Kong*

May 2019

SKILLS

Software Engineering Java, C, SQL, HTML, JavaScript, Git, Agile, Android, Cryptography and Blockchain
Machine Learning Python, Tensorflow, PyTorch, Transformer, NLTK, Seaborn, OpenCV, Regex

EXPERIENCE

Machine Learning Engineer Intern, *Pure Storage*, CA, USA

Jun 2022 - Aug 2022

- Researched for log mining and large corpus machine learning technologies
- Delivered Field Lifetime Estimator, predicting products' failure based on testing data with 3-month error margins

Machine Learning Engineer, *Winbond*, Hsinchu, Taiwan

Jan 2021 - Aug 2021

- Extracted trending technologies with named entity recognition model to visualized dashboard enhancing marketing department's efficiency by 200%
- Led discussions with patent engineers to swiftly recognize needed functions, parsed patents utilizing regular expressions, and visualized Winbond's strength with Power BI

Software Engineer, *Cellmax Life*, Taipei, Taiwan

Jul 2019 - Nov 2019

- Built desktop application to automate medical report making process, eliminating typographical error and improving efficiency by 96%
- Boosted efficiency on querying by 98% by designing database, implementing with MySQL, and migrating data from Google Sheets
- Adopted watershed segmentation to label and preprocess data in tumor cell recognition project

PROJECTS

Field Lifetime Estimator (FiLteR), *Pure Storage*

- Reduced input complexity with Drain algorithm and TF-IDF
- Delivered a customized attention model for estimating field lifetime with mean absolute error of 12 weeks

Named Entity Recognition, *Winbond*

- Reduced time on data labeling by 90% by adopting Jieba for word segmentation and Fasttext to tag synonyms
- Fine-tuned ALBERT NER model with customized labels to detect trending technologies in news
- Visualized trend with word cloud relieving marketing team's workload on reading news

Report Generating Application, *Cellmax Life*

- Developed a GUI application that queries data with given client credentials and renders a report accordingly
- Adopted multi-thread processing to boost the performance, pushing the average runtime to less than a minute

Database System, *Cellmax Life*

- Designed and implemented a MySQL database satisfying medical data storage regulations and BCNF
- Delivered a responsive front-end interface with Vue.js for non-technical users to access the database

ACTIVITIES

Participant, *Cathay Pacific Hackathon*

Volunteer, *Galle, Sri Lanka / Guangxi, China / San Francisco, USA*