YUWEI ZHANG

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EDUCATION

Duke University, Durham, NCM.S. in Data ScienceAug. 2020 - May. 2022National University of SingaporeComputer Science Master CandidateJan. 2020 - Jul. 2020Tsinghua University, ChinaBEng in Environmental EngineeringAug. 2011 - Jul. 2015

SKILLS

Programming: Java, Python, C++, Shell, HTML, CSS, SQL

Database: MySQL, PostgreSQL, Redis

Machine Learning: Scikit-learn, PyTorch, TensorFlow, NLP, AWS Certified Machine Learning Specialty Techniques: Linux, Git, Docker, Flask, AWS, Spark, Slurm, OOP, REST API, Distributed Computing,

Asynchronous I/O, Agile Development

WORK EXPERIENCE

Google LLC.

Software Engineer

Los Angeles, CA

Project: Movie Editor

• Developed a novel movie editor, enhancing overall user experience

• Orchestrated the process of content curation, integrating algorithms to autonomously select optimal content for customized movies.

Facebook Inc.

May. 2021 - Aug. 2021

Software Engineer Intern

Menlo Park, CA

Project: Automated Machine Translation Toolkit

- Developed a multilingual **machine translation** toolkit compatible with various **Pytorch** models, with command-line tools for data pre-processing, training, evaluation
- Accelerated the speed of the entire pipeline by over 20 times via asynchronous processing
- Integrated Hydra, OmegaConf to support configuration inheritance, override and sweep with YAML
- Implemented a snapshotting system for consistency in long-term and large-scale distributed training
- Utilized **Slurm** to manage weeks-long training jobs in 300 languages and hundreds of TB data on **large-scale compute clusters**

DianRong Information Technology

Software and Algorithm Engineer

Jun. 2018 - Dec. 2018 Chenqdu, China

Project: Python and Flask based Tarot Divination App

- Developed a tarot divination app providing online predicting service with Flask, used SQlAlchemy to interact with MySQL database
- Innovated **social features** and **game currency mechanisms** to boost user engagement, gained 120,000 registered users and 2,500 daily unique visitors without any marketing expenses

Chengdu Think Tank 2861 Information Technology

Software and Algorithm Engineer

Jul. 2017 - Apr. 2018 Chengdu, China

- To collect 60 million posts and comments from popular social media platform, developed a **distributed** multi-threaded crawler in Python, deployed on Alibaba-cloud and stored texts in PostgreSQL
- Constructed a dynamic **opinion analysis model** to evaluate County Government performance and achieved 90% positive rate in user feedback
- Established an official **social network** with 144,504 hierarchical connections, devised recommendation function by inferring potential connections