

YUWEI ZHANG

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EDUCATION

Duke University, Durham, NC	M.S. in Data Science	Aug. 2020 - May. 2022
National University of Singapore	Computer Science Master Candidate	Jan. 2020 - Jul. 2020
Tsinghua University, China	BEng in Environmental Engineering	Aug. 2011 - Jul. 2015

SKILLS

Programming: Java, Python, C++, Shell, HTML, CSS, SQL (MySQL, PostgreSQL, Redis)
Machine Learning: Scikit-learn, PyTorch, TensorFlow, NLP, AWS Certified ML Specialty
Techniques: Linux, Docker, Flask, AWS, Spark, REST API, Distributed Computing, Async

WORK EXPERIENCE

Google LLC.	Jul. 2022 - now
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	Jun. 2018 - Dec. 2018
Software and Algorithm Engineer	Chengdu, 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
- Created 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	Jul. 2017 - Apr. 2018
Software and Algorithm Engineer	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