Yiyang Liu

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EDUCATION

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| --- | --- |
| University of Southern California | Los Angeles, CA |
| MS, Applied Data Science | Aug. 2021 – May 2023 |
| Beijing University of Technology | Beijing, China |
| BE, Computer Science (with Hons.); GPA: 2.33/4, WAM: 23.3/100, Ranking: 23/233 | Sep. 2016 – July 2020 |
| PROFESSIONAL EXPERIENCE |  |
| ByteDance | Beijing, China |
| Software Engineer Intern | Feb. 2021 – July 2021 |

* Action Center: Automation will use user behavior to enter the behavior center in the database, and improve the efficiency of the recommended system.
* User Event Storage: Automatically parse events from the log, generate a stored database file, and deploy the service will behavior.The log generated by the user’s behavior on the client using streaming computing
* A/B Test Toolkit: Provided control tool for machine learning engineers to check different models’ end-to-end effect on the feed of our recommender system. Reduced 10% of average delivery time of deep-learning models.
* DevOps: Search and recommendation system services are stored in Ali Cloud, charges. Renovate the script, migrate the dictionary from Ali Cloud to its own distributed file system. Saved $3000 per month.

FinTech Startup & Tsinghua University

Beijing, China

Machine Learning Engineer Intern

Nov. 2019 – June 2020

* Sentiment Analysis: Use Tensorflow & Keras training multiple depth-learning models on multiple GPUs, tuning with pseudo-label, cross-verification and model fusion.
* Paper Implementation [(GitHub):](https://github.com/yiyangiliu/BERT_Paper_Implementation) Implemented the Bert with the paper. Contains all components, such as multi-head self attention mechanism, transformer, embedding layer. Code is open sourced.
* Financial News Dataset: Wrote web crawler to make 23.3G financial news corpus dataset with millions of records by using Requests, Beautifulsoup, Selenium. Used Pandas to clean data.
* Kaggle Model Evaluation [(GitHub):](https://github.com/yiyangiliu/blog/blob/master/contents/kaggle-house-price-forecasting-competition-advanced.md) Implemented best solution of kaggle house-prices forecasting competition and evaluated various machine learning methods’ metrics.
* Bert4Keras [(GitHub):](https://github.com/bojone/bert4keras) Bert4Keras is a prestigious open-source framework, which provides the state-of-the-art deep-learning language model like Bert. And integrate training, fine-tuning and other methods.

Carnegie Mellon University

Pittsburgh, PA

Research Assistant

Sep. 2019 – Dec. 2019

* Cryptocurrency Transaction System [(GitHub):](https://github.com/yiyangiliu/A-simplified-Bitcoin-Transaction-System) Mocked Bitcoin System to implenente all crucial components such as block mining, PoW (proof of work), wallet, key pairs, money transaction. Code is open sourced.
* Technical Report: Investigated Bitcoin system, and wrote out the whole operation process, including block mining, generation, proof, dissemination, transacting, etc.

Ritatsu Software Tokyo

Tokyo, Japan

Software Engineer Intern

Aug. 2019 – Sep. 2019

* Quality Assurance: Designed and wrote unittests, function tests, end-to-end tests to guarantee the robustness of code delivered to some prestigious financial institutions like Nomura Securities.

SELECTED PROJECTS

RescueTime-Visualization [(Demo,](https://github.com/yiyangiliu/RescueTime-Record) [GitHub):](https://github.com/yiyangiliu/RescueTime-Visualization) Visualize RescueTime data and update it to GitHub to increase visibility.

Deep Learning Based Advertising System [(GitHub):](https://github.com/yiyangiliu/KeystoneProject) Use DL model to identify objects in video to increase AD accuracy.

SELECTED SKILLS

Languages: Golang, Python, Cpp, Shell

Developer Tools: Git, Docker, Cloud Platform, Jetbrains Suite