FU, MIAO

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EDUCATION

Hunan University of Technology and Business (HUTB) — Changsha, Hunan
BS Information and Computing Science *GPA: 3.43/4 (Top 7%)* — Sep 2015 - June 2019

Brown University — Providence, Rhode Island
Summer Session — June 2017 - Aug 2017

UNDERGRADUATE COURSEWORK

Mathematics: Linear Algebra, Mathematical Analysis, Probability and Statistics
Computer Science: Data Structure, Database Systems, Operating System Engineering, Introduction To Algorithms, Machine Learning

WORK EXPERIENCE

Samoyed Cloud Technology — Shenzhen, Guangdong
Big Data Engineer — Mar 2021 - Present

- Established an ROI-based cost-benefit analysis intelligence system to guide the advertising campaign optimization, saving the company 300k labor costs per year by replacing manual Excel calculation
- Accomplished the revenue prediction at 97.3% accuracy for the next 12 billing periods with 172,800 channels' performance data acquired and integrated monthly from Hive, and implemented linear regression and the yield conversion algorithm with Python
- Delivered materialized views in ClickHouse to improve the data query and storage efficiency for about 8 million daily incremental data from device fingerprints

CEC Industrial Internet — Changsha, Hunan
Big Data Engineer — Apr 2019 - Jan 2021

- Designed and initially architected the construction, configuration, and maintenance of an internal big data ecosystem, including Hadoop, HBase, Zookeeper, Kafka, and Spark, to provide a solid foundation for processing industrial Internet data of 10,000 concrete pump trucks' driving and working performance

Hunan Province Mobile Business Intelligence Lab — Changsha, Hunan
Assistant Researcher — Oct 2018 - June 2019

- Applied the RWR(random walk) algorithm to analyze the similarity of complex network nodes, and built a recommendation system for scientific research cooperation with an accuracy rate of more than 90% with data
- Used Matlab and Python to conduct exploratory data analysis, visualization, simulation, and modeling with complex network data of 1,3000 researchers, 350,000 articles, and 2,333,636 citations from ResearchGate

SKILLS

Programming:	Python, SQL(Hive/Spark SQL), Java, Bash/Shell
Frameworks:	TensorFlow, PyTorch, Hadoop, Spark
Tools & Platforms:	Git, Linux, Hive, HBase, ClickHouse, MySQL, MATLAB, Excel
Language:	English(TOEFL: 99/120; GRE: 321/340)

AWARDS

National First Class Prize — Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM)
Nov 2017

Honorable Mention — Mathematical Contest in Modeling (MCM)
Apr 2018

Outstanding Graduates — HUTB
June 2019

PUBLICATIONS AND PATENTS

X. Zhou, W. Liang, S. Huang and M. Fu, "Social Recommendation With Large-Scale Group Decision-Making for Cyber-Enabled Online Service," in IEEE Transactions on Computational Social Systems, vol. 6, no. 5, pp. 1073-1082, Oct. 2019, doi: 10.1109/TCSS.2019.2932288.