
Resume (Gaoshan Deng)

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EDUCATION BACKGROUND

- **University of Southern California, USA**
Master of Computer Science (02/2018 - Now)
Courses: Analysis of Algorithms, Web Technologies, Machine Learning, Data Mining
- **Xiamen University, China**
Bachelor of Software Engineering (09/2013 - 06/2017)
Courses: Principle of Computer Organization, Applied Operation System, Principle of Compiler

WORK EXPERIENCES

Software Developer Intern Mettler-Toledo International 2018/5-2018/8

- Made a real-time temperature sensor testing system to replace manual testing, which runs at least 20 testing samples simultaneously
- Analyzed data using Python and built a LR model for company's original production data
- Collected real-time raw data through serial communication from different sensors and integrated data
- Analyzed the obtained time series data using the LR model, and marked abnormal sample in time
- Designed, implemented, deployed and tested this real-time testing system, including hardware communication module, real-time data collection and preprocessing module, view and log module
- Language: C, Python

Algorithm Engineer Intern BaishanCloud 2017/6-2017/8

- Built a polynomial regression model of cloud server traffic with respect to current time
- Implemented a monitoring and alarm system for abnormal burst traffic of cloud server
- Built model to predict the highest traffic value based on current actual traffic, enabling cloud servers to handle burst traffic growth in advance
- Language: Python

RESEARCH PROJECTS

Energy-Aware Scheduling Algorithms on Heterogeneous Computing System

- Proposed an algorithm based on genetic algorithm for *Energy-Aware Scheduling System*
- Solved the problem of how to run a large-scale scheduling task on multiple heterogeneous machines at a minimum cost and time
- Presented and reported the paper public in the 10th International Conference on Bio-inspired
Paper published on *Bio-Inspired Computing-Theories and Applications*, Springer Berlin Heidelberg, 2015:94-106 in 2015: *MOEA/D for Energy-Aware Scheduling on Heterogeneous Computing Systems*

SKILLS

- Programming Languages: Python, C/C++, C#, Scala, Java, SQL
- Algorithms: Machine Learning, Optimization, Data Mining
- Frameworks: Numpy, Scipy, Pandas, Scikit-learn, Scrapy, Plotly, Matplotlib
- Others: HTML, CSS, JavaScript, PHP, Android, Linux, Spark, Hadoop