

Ching-Han Lee (Peter)

Machine Learning
Data Engineering
Software Engineering
Web Development
Python
Pandas
scikit-learn
Theano/Keras
PHP
REST APIs
jQuery
Bootstrap
HTML/CSS
C++
OpenCV
Matlab

Experience

Data Engineer @ SparkAmplify 2016 – 2017

- Query 3rd party data through their REST APIs to our database
- Scrape news articles as unstructured raw data, collected 10M+ data points
- Process unstructured data with the knowledge of some NLP and feature selection
- Deploy and maintain company's main relational database MySQL on Amazon EC2

Full Stack Developer @ SparkAmplify 2016 – 2017

- Develop company's main Saas platform using MVC PHP framework Codeigniter
- Apply Bootstrap, JQuery, Vue.js, and other JS packages to boost frontend experience
- Realize on demand data pipeline with 3rd party APIs and boost 10x+ of speed
- Convert scripting languages between Python and PHP

Business Development Intern @ Bezalel 2015

- Optimize ads deployment strategy by applying regression analysis on performance
- Cut company fan page's cost per like from \$1.1/like to \$0.22/like
- Present the company on pitch stages, media interviews, and multiple occasions

Research & Projects

Deep Learning on Medical Data @ USC 2016

- Clean and standardize raw MIMIC-III data with respect to domain knowledge
- Train and tune RNN models with chronological (time-series) data
- Design multilayer learning models to avoid false supervision
- Compare the performance of different models, basic RNN, LSTM, and SVM

Education

MS of Electrical Engineering @ USC 2014 – 2016

- Focus on Signal Processing, data engineering, and machine learning
- Featured Research: ICU Length of Stay Prediction using 2 layers LSTM and MIMIC-III

BS of Electrical Engineering and Computer Science *@ National TsingHua University* 2009 – 2013

- Featured Research: An RF Energy Harvester Design in 0.18 μ m CMOS Technology

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