Shaohao Zeng

Personal Data

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Experience

Aug 2014 - Current
B.S. in Computer Science
Sun Yat-sen University, Guangzhou
GPA: 3.7/4.0

Oct 2017 - Dec 2017
Intern in **TuSimple**
Infra Engineer Intern, High Performance Computing (HPC)
TuSimple is a startup dedicated in autonomous truck driving. I designed and implemented some infrastructure components.

Apr 2017 - Oct 2017
Research Assistant in **Netlab @ SYSU**
Mentor: Di Wu
I participated in the design and implementation of a large-scale commercial video recommender system.

Project

external DNS: An intern project; I implemented a service that tracked and managed the DNS records of Docker services run in Rancher; Developers would not need to handle the DNS table manually.

Video Recsys: A lab project; I participated in the development of a commercial video recommender system for Dr. Peng Group, China's largest non-state owned telecom operator; I was responsible for the design and implementation of the content-based recommender module.

Kaggle Contest: Ranked Top 9% (221/2488) in *Kaggle's Two Sigma Connect: Rental Listing Inquiries*; The task is to predict users' preferences to different listing in NYC; Conducted several feature engineering techniques and ensembled models to reduce prediction loss.

Android APPs: Course work; I have participated in several Android projects, including a chat APP of which I wrote for the server side and a contact APP of which I wrote the front-end.

OBJ Viewer: Course work; I implemented a renderer in Core OpenGL and it could show a 3D model stored in an OBJ file.

OS proto: Course work; Written in C and x86 Assembly and can boot from real mode to protected mode. Binaries from hard disk can be loaded and run concurrently.

JSON Parser: Written in C++; Bytes are parsed using the recursive descent algorithm.

Skill

Spark:	Familiar with Spark API and have implemented Latent Semantics Indexing (LSI) algorithms in Spark for the Recsys project.
Python:	Familiar with Python and conventional scientific computing modules including Numpy, Scipy, Pandas and scikit-learn.
C++:	Familiar with C++ and STL, including the recent standard C++ 11.
SQL:	Familiar with common SQL syntax .
Windows/Linux:	Familiar with common uses and some developing techniques in these OS.

Online Course

Programming Languages:	Taken in Coursera; I learnt the paradigm of functional programming by Standard ML; I implemented an interpreter for a simple S-expression like language by Racket; I learnt fundamental concepts of OOP using Ruby.
Algorithms: Design and Analysis	Taken in Coursera; I learnt algorithm design techniques (Divide & Conquer, Dynamic Programming and etc.) and analysis techniques (complexity analysis, probabilistic proof techniques and etc.).
Machine Learning	Taken in Coursera; I learnt a bunch of models and learning algorithms.
Deep Learning	Taken in Coursera; I learnt the concept and practice of Deep Learning, some optimization techniques and Convolutional Neural Network.
Machine Learning Foundations	Taken in Coursera; I learnt the statistical learning theory, the fundamentals of machine learning techniques.