Siyuan Xiang

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EDUCATION

New York University, New York, USA   Expected Graduation   05/2018

M.S. in Data Science, GPA: 3.9/4.0

- Relevant Courses: Intro to Data Science, Statistical and Mathematical Methods, Optimization and Computational Linear Algebra for Data Science, Machine Learning and Computational Statistics, Big Data, Advanced Python Programming

Fudan University, Shanghai, China   Graduation   06/2016

B.S. in Applied Mathematics

- Relevant Courses: Computer Programming (C++, Java, MATLAB), Data Structure, Linux Operating System, Digital Signal Processing, Systematic Math Courses

EXPERIENCE

Weilan Network Technology Co. Ltd, Shanghai, China   01/2015 - 11/2015

(An IoT company specializing in Smart LED Lighting System)

Algorithm Engineer Intern

- Implemented music tempo analysis algorithm using Fast Fourier Transform.
- Researched and analyzed relevant papers and open source code.
- Optimized the algorithm for fix-point DSP chip and enabled real-time analysis of music tempo.

Fudan PC Service, Shanghai, China   09/2013 – 01/2016

Team leader

- Led a team of 5 people and provided over 300 hours' volunteer service.
- Contributed to the write-up of training documents to enhance new members' understanding of the process of PC Service.
- Delivered several internal training lectures and significantly improved the working efficiency of the group.

PROJECTS

Recommendation System for Yelp: New York University   09/2016 – 12/2016

- Increased rate of recommending 5-star restaurants by 150%.
- Cleaned the raw dataset and extracted useful features.
- Utilized various Python libraries and implemented machine learning algorithms such as k-NN, collaborative filtering and matrix factorization.

MNIST Handwritten Digit Recognition: New York University   02/2017 – 03/2017

- Utilized PyTorch to build Convolutional Neural Networks.
- Increased accuracy to 96% by implementing Ladder Network and Pseudo-label with 3000 labeled and 47000 unlabeled training data.

SKILLS

Programming: Python, C++, R, MATLAB, Java, PHP
Deep Learning: PyTorch
Database: MySQL
Hadoop Ecosystem: MapReduce, PySpark
Technical: Applied math, machine learning, deep learning, big data analytics