

Hao Fu

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EDUCATION	<i>B.S.</i> at Fudan University (GPA: 3.3/4.0) September 2014 - Present <ul style="list-style-type: none">Major: Computer Science and Technology (Data Science & Technology)
ENGLISH PROFICIENCY	<i>TOEFL</i> <ul style="list-style-type: none">Total: 110 (Reading: 29; Listening: 28; Speaking: 26; Writing: 27) <i>GRE</i> <ul style="list-style-type: none">Verbal: 154; Quantitative: 170; Analytical Writing: 4.0
ACADEMICS	<i>Research Interests</i> <ul style="list-style-type: none">Data Mining, Machine Learning. <i>Mastering following programming languages</i> <ul style="list-style-type: none">Python, C, C++, Java, Matlab, R, MySQL, \LaTeX.
CURRICULUM	<i>Data Science</i> <ul style="list-style-type: none">Big Data Analytics, Artificial Intelligence, Neural Network and Deep Learning, Machine Learning, Social Network Mining. <i>Mathematics</i> <ul style="list-style-type: none">Statistics, Time Series, Numerical Algorithms, Discrete Mathematics, Linear Algebra, Mathematical Analysis. <i>Computer Science</i> <ul style="list-style-type: none">Introduction to Computer System, Distributed Systems, Database, Data Structure, Digital Logic and Component Design.
PROJECT EXPERIENCE	<i>New York Taxi Analytics</i> July 2017 <ul style="list-style-type: none">Setup Spark computing cluster for parallel processing of gigabyte scale datasets. Implemented in Python using PySpark.Derived the busiest and most expensive hailing locations through spatial trajectory clustering to assist passengers and drivers.Constructed machine learning models that predict time of arrival.Experienced with Google Charts and Carto for data and geometric visualization. <i>Large-scale Video Categorization</i> January 2017 <ul style="list-style-type: none">Used Python to implement a regularized deep neural network on the Fudan-Columbia Video Dataset (91,223 videos of 239 classes) and obtained 72.4% in precision.Exploited feature and class relationships to improve performance.Conducted GPU programming to deal with massive data processing.

- This project reproduced work of Jiang *et al.* in “Exploiting Feature and Class Relationships in Video Categorization with Regularized Deep Neural Networks”.

Operating System Emulator

June 2016

- Programmed in C to emulate the basic functions of an operating system.
- Implemented assembly instructions according to i386 reference manual.
- Other features included registers, stack frames, and expression evaluations.

Database Management System

May 2016

- Created a Java applet for querying player statistics from the mobile game One Piece Cruise. The DBMS supported query, insert, edit and delete operations.
- Built the GUI using AWT and Swing. The database operations were programmed with MySQL and used IBM Bluemix for data storage.

Others

- Movie recommendation system, text categorization, stock price analysis (time series), Texas Poker AI bot, and image spiders.

INTERNSHIPS

Summer Intern in iDVx Lab at Tongji University, China

July - September 2017

- Worked with Professor Nan Cao on an ACM CHI paper: “Redirect Your Attention: Interactive Situation Awareness guiding by Users Feedback”.
- Proposed an effective algorithm framework that helps domain experts make decisions in situation awareness tasks.

AWARDS

- Meritorious Winner of Mathematical Contest In Modeling
- Third Prize of the Scholarship for Outstanding Students at Fudan University

January 2017

2015 & 2016

SERVICES

Volunteered at the Shanghai Forum on Software Trade 2017

October 2017