

# Hao Fu

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**EDUCATION**     *B.S. in Computer Science (GPA: 3.3/4.0)*     September 2014 - Present  
Fudan University, China

**ENGLISH**     *TOEFL*  
**PROFICIENCY**     • Total: 110 (Reading: 29; Listening: 28; Speaking: 26; Writing: 27)  
  
*GRE*  
• Verbal: 154; Quantitative: 170; Analytical Writing: 4.0

**PROGRAMMING** *Mastering following programming languages*  
• Python, C, C++, Java, Matlab, R, MySQL.

**CURRICULUM**     *Data Science*  
• Big Data Analytics, Artificial Intelligence, Neural Network and Deep Learning, Machine Learning, Social Network Mining.  
  
*Mathematics*  
• Statistics, Time Series, Numerical Algorithms, Discrete Mathematics, Linear Algebra, Mathematical Analysis.  
  
*Computer Science*  
• Introduction to Computer System, Distributed Systems, Database, Data Structure, Digital Logic and Component Design.

**PROJECT**     *New York Taxi Analytics*     July 2017  
**EXPERIENCE**     • 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.

*Large-scale Video Categorization*     January 2017  
• 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 January 2017
- Third Prize of the Scholarship for Outstanding Students at Fudan University 2015 & 2016

**SERVICES** *Volunteered at the Shanghai Forum on Software Trade 2017* October 2017