Ao **Wang**

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🎓 Education

Sep 2019 *– May 2021*	**Brown University**, Providence, RI Sc.M. in Computer Science, *Department of Computer Science* TOEFL : 115 │ GRE : 328+3.5 Currently Undertaking Courses : CSCI 2470 *Deep Learning*, CSCI 0330 *Introduction to Computer Systems*
Sep 2015 *– Jun 2019*	**Fudan University (FDU)**, Shanghai, China B.Eng. in Computer Science (Secrecy Management track), *School of Computer Science* GPA : 3.59/4.0 │ Rank : 8/112 Relevant Coursework : *Data Structures, Algorithm Design & Analysis, Database Systems, Operating Systems, Compilers, Cryptography, Computer Architecture, Computer Network, Software Engineering, Artificial Intelligence, Linear Algebra, Set & Graph Theory, Mathematical Analysis BI & BII, Probability Theory & Mathematical Statistics, Operational Research*

☰ Skills

Programming Languages : Experienced with **C/C++**, **Python**; familiar with **SQL**, **Qt/PyQt**, LaTeX; previously used Java, MATLAB, Javascript
OS/Platforms : Unix/Linux, MySQL, Python Scikit-learn, Hadoop, Spark, and Github
Software : Git, Vim, Wireshark, Tensorflow

⚙ Experiences

Apr 2017 *– Jun 2019*	**Shanghai Key Laboratory of Data Science**, Shanghai, China Undergraduate Researcher, *School of Computer Science, Fudan University* Supervisor : *Prof. Yanghua Xiao* › Worked on data mining, knowledge reasoning upon knowledge graphs with statistic and machine learning models › Designed a machine learning framework to represent relations between concepts and features of entities using **Python** and Tuffy › Participated in the content extraction of CN-Probase, the largest Chinese concept taxonomy that contains 33 million isA relations with a precision over 95%
Jul 2017 *– Aug 2017*	**University of Cambridge**, Cambridge, United Kingdom Visiting Student, *Queens' College* › Fellowship fully supported by Zhide College, Fudan University

</> Selected Independent Projects

Mini Bitcoin, Python ⚲
› Implemented a fully-functional, multi-threading mini Bitcoin wallet with decentralized block chain
› Replicated most of Bitcoin's functions including block structure, block mining by proof of work, transaction, verification, etc
› HTTP protocol via Flask was utilized to connect and set up P2P networks
Python │ block chain │ Flask │ P2P network

Encrypted Online Shopping Mall, Python ⚲
› Implemented an encrypted multi-threading online shopping mall system with PyQt GUI
› Supported avatar uploading, user registration & login, purchase & balance management, message broadcast, shop & commodity query and management, etc
› Designed the protocols for communication by using JSON
Python │ Client-Server structure │ PyQt GUI │ multi-threading │ database

JOS Kernel, C/assembly language ⚲
› Completed the JOS kernel as the project of MIT 6.828
C/assembly language │ OS kernel

More at my github homepage

📖 Publications

› Jiangjie Chen, **Ao Wang**, et al. 2019. Ensuring Readability and Data-fidelity using Head-modifier Templates in Deep Type Description Generation. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics* (**ACL**). 2036-2046. ⎙
› Jindong Chen, **Ao Wang**, et al. 2019. CN-Probase : A Data-driven Approach for Large-scale Chinese Taxonomy Construction. In *IEEE 35th International Conference on Data Engineering* (**ICDE**). 1706-1709. ⎙

✈ Honors & Awards

Summer 2019	Outstanding Graduate of Fudan University (Top 8%)
Spring 2018	Meritorious Winner of *The Interdisciplinary Contest in Modeling* (ICM) 2018
Summer 2017	Queens' College, University of Cambridge visiting fellowship (Top 1%)