

Ji Ding

809 W Springfield Ave, APT #304, Urbana, IL, 61801

Phone: (217)-904-6972 Email: jiding2@illinois.edu

OBJECTIVE

Junior student seeking a software engineer intern position.

EDUCATION

University of Illinois at Urbana-Champaign

Expected May 2020

Bachelor of Science in Computer Science, Statistics.

- **Major GPA: 4.0/4.0; cumulative GPA: 3.96/4.0**
 - **Relevant Coursework:** Machine Learning Theory and Practice, Operating Systems, Distributed Systems, Database, Object-Oriented Design, Algorithms, Data Structure, Computer Architecture, Compiler, Numerical Method, Statistical Computing.
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SKILLS

- Programming skills:
 - **Programming Language:** Python, C++, C, JAVA, Go, R, Ocaml, JavaScript, HTML5.
 - **Tools:** Pytorch, Tensorflow, NumPy, SciPy, scikit-learn, Hadoop, NoSQL, JUnit, CSS, Qt, Git.
 - Language ability: English, Mandarin Chinese
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EXPERIENCES

National Key Laboratory of Intelligent Technology and Systems, Tsinghua University Beijing, China

Research Intern

May 2018 - Aug 2018

- Advised by Prof. Maosong Sun (Dept of Computer Science, Dean) at NLP Group.
- Implemented a Variational Auto Encoder based stock movement prediction algorithm in **Tensorflow**.
 - Utilized large Tweets texts and historical stock prices for past 10 years.
 - Utilized Stanford CoreNLP toolkit to extract Finance Relevant Tweets.
 - Reached 58% accuracy for daily movement direction prediction.
 - Submitted to AAAI 2019
- Designed and implemented an attention-based reinforcement learning algorithm for foreign exchange trading in **Pytorch**.
 - Developed python script for cleaning and processing global currency exchange rate data for the past 10 years.
 - Reached 73% accuracy for 30 min movement direction prediction.

UmiUni.com

Champaign, Illinois

Back-end developer

May 2018 - Current

Working on building and maintaining back-end infrastructure of UmiUni.com

- Language & technologies: Go, Java, Hadoop, Hbase, Schemaless, Cascade Style Sheets(CSS)
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SELECTED PERSONAL PROJECTS

- Gomoku Game and its AI *Jan 2017 - Mar 2017*
 - Implemented both Minimax and A* algorithm in C++.
 - Designed User Interface in QT.
 - Outperforms amateur human.
- Distributed File System *Aug 2018 - Current*
 - Implemented a scalable (100+ server) Distributed File System utilizing JAVA Socket.
 - Implemented fault detection and automatic recovery (tolerant of upto 10 back to back failures).
 - Including version control feature.

AWARDS, ACTIVITIES AND INTERESTS

- **Honors** Dean's List, UIUC (all semester) Tao Sigma Scholar, UIUC (2017)
- **Interests** Machine Learning, Algorithms, Distributed System, Cloud Computing, FinTech.