Fei Luo
full-stack software engineer/data scientist

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PROGRAMMING
- C
- C#
- C++
- PHP
- Java
- Rust
- ♥ • Python
- GoLang
- Assembly
- Javascript

INTERESTS
- Web Framework
- Machine Learning
- Distributed System

Education

2015^{09}-Present	**Master of Science in Computer Science**	Northwestern University, USA
	Department of Electrical Engineering and Computer Science	
2011^{09}-2015^{07}	**Bachelor of Engineering in Computer Software**	Tsinghua University, PRC
	School of Software	

Awards

2015^{11} **ACM ICPC Regional Silver Medal** **[News]** — Mid-Central USA
Rank **4** out of **156** teams (Tied for 1st place) [Rank]

2013^{08} **3rd Prize of Baidu Web Front-End Development Competition** — Baidu, PRC
Designed a picture display webpage with search functions
Rank **10** out of **60** contestants

2012^{12} **3rd Prize of Wireless Sensor Network Project Competition** — THU, PRC
Rank **5** out of **20** groups

Work Experience

2016^{06}–2016^{09} **Software Development Engineer, Intern** — Amazon Web Services, USA
AWS Payment and Bill Presentation Team
I worked as a full-stack software engineer to improve the performance as well as the customer experience.
- Built a two-level caching system for our service.
- Optimized the REST API.

2014^{10}–2015^{05} **Research Intern** — THU & Intel China, PRC
- Project: *"Privacy Protection based on Big Data Platform"*
- Defined a language plan to translate privacy rules and policies into machine-understandable language.
- Developed the rule-parsing algorithm.
- Proposed the privacy-checking algorithm by lineage tree.

Projects

2015^{09}–2016^{06} **Course Projects** — Northwestern University, USA
- Project: *"Kademlia" (Kademlia Distributed Hash Table Protocol)*
- Project: *"RuDB" (Key-Value based data storage written in Rust)*
- Project: *"Virtual Console for Nautilus" (Linux Kernel Development)*
- Project: *"Data Science: Is college study a good investment?"*

2014^{07}–2014^{09} **Prof. Darko Marinov's Group** — UIUC, USA
- Project: *"JaConTeBe" (Java Concurrency Testing Benchmark)*
- Wrote scripts to run tests and report bugs automatically.
- Added a new bug to the benchmark and tested the benchmark with JPF.

2013^{11}–2014^{01} **Prof. Yunhao Liu's Course** — Tsinghua University, PRC
- Project: *"Data Collection and Aggregation in Multi-hop Wireless Sensor Networks"*
- Built a sensor data processing framework for [1]data acquisition, [2]message forwarding, [3]Ack and message retransmission.
- Project: *"FTP client & server Implementation"*

2012^{10}–2012^{12} **Prof. Bin Wang's Course** — Tsinghua University, PRC
- Project: *"Article Recommendation based on Item CF"*
- Implemented article recommendation by item based collaborative filtering.

2012^{02}–2012^{06} **Prof. Lijie Wen's Course** — Tsinghua University, PRC
- Project: *"Microblog Retrieval System based on Keywords"*
- Implemented crawler to acquire microblog data and inverted doc to search by keywords.