

# LEI ZHAO

## PERSONAL DATA

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ADDRESS: Minhang Dist., Shanghai, China  
PHONE: +1 319 555 0128  
EMAIL: [lei.zhao@example.com](mailto:lei.zhao@example.com)  
STACKOVERFLOW: [stackoverflow.com/u/2117531](https://stackoverflow.com/u/2117531)  
GITHUB: [github.com/LeeiFrankJaw](https://github.com/LeeiFrankJaw)

## WORK EXPERIENCE

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SEPT 2018– JAN 2019	Fall intern at FREE SOFTWARE FOUNDATION <i>GitLab and Pagure Development</i> I investigated GitLab and Pagure, wrote documentation for internal use, and made necessary changes to satisfy FSF's goals.
JAN–JUN 2018	OLAP and ETL programmer at HAOMAIYI, Shanghai <i>Back-end and Warehouse Development</i> I extracted data from different sources, transformed them into desired forms, and loaded them into data warehouse for later analytics. I helped set up the Superset BI platform, did some OLAP, and provided results to our clients through web APIs.
FEB–DEC 2017	Python programmer at MESOOR, Shanghai <i>Web Crawler and Front-end Development</i> I wrote web crawler using pypspider to crawl job descriptions from several major Chinese employment-related website like chinahr.com, zhaopin.com, lagou.com, and so on so forth. I implemented an automatic login service using W3C WebDriver technology and help our clients import their resumes into our own system. I also participated in a lot front-end website development with both Angular/TypeScript and vanilla JavaScript and some back-end development with Flask and hug. I was also often assigned tasks related to database (PostgreSQL primarily, also MySQL) operation and migration.
NOV 2014– FEB 2015	Clojure programmer at STARWORKING, Shanghai <i>Full-stack Development</i> Develop full-stack website with Clojure and related technology while learning Clojure on the go. There was also some media coverage by Global Times on how I found this internship.

## EDUCATION

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SEPT 2014– JUN 2017	Zhuanke Certificate of Graduation in COMPUTER SCIENCE <b>SJTU</b> , Shanghai, China This certificate, which I attained by self-taught examination, is equivalent to an Associate's degree. Upon completion, I learned C, RDBMS, data structures, discrete math, computer organization, operating system, networking, digital logic, 8086 interfacing, and so on.
AUG 2011– FEB 2012	<b>Cornell College</b> , Mount Vernon, IA Since I had only one semester here, I learned about Java and formal logic, and became an Emacs and Linux user.

## COMPUTER SKILLS

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Basic Knowledge: Bash, GNU toolchain, XQuery, x86 ISA, Redis, MongoDB  
Intermediate Knowledge: Python, JavaScript, SQL, C, Clojure, Angular, Java, Scala, L<sup>A</sup>T<sub>E</sub>X, OLAP, ETL

## LANGUAGES

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CHINESE: Native  
ENGLISH: Proficient  
RUSSIAN: Rudimentary

## HONORS AND AWARDS

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Nov 2009 2nd Prize in National Olympiad in Informatics in Provinces (NOIP)  
**China Computer Federation**  
NOIP is an annual competitive programming competition for secondary school students. The contest consists of five hours of programming on an individual basis, solving problems of an algorithmic nature.

## CERTIFICATIONS

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APR 2015 Coding the Matrix: Linear Algebra through Computer Science Applications **Coursera**  
I learned many applications of linear algebra in a variety of fields like computer vision, cryptography, graphics, information retrieval, and so on.

SEPT 2014 The Hardware/Software Interface **Coursera**  
I learned key computational abstraction levels below modern high-level languages, number representation, assembly language, memory management, the operating system process model, high-level machine architecture including the memory hierarchy, and how high-level languages are implemented. I was very sad to know in 2015 that Prof. Borriello passed away after six-year fight against colon cancer.

JUN 2014 Functional Programming Principles in Scala **Coursera**  
In addition to some hands-on experiences with Scala, I learned about proofs of invariants for functional programs and how to trace execution symbolically.

JUN 2014 Logic: Language and Information 2 **Coursera**  
This is my first officially verified MOOC. I learned various application of formal logic in different fields such as EE, CS, linguistics, philosophy, and math. Specifically, I learned Robinson's unification and resolution and played with SWI-Prolog. This course also deepened my understanding of  $\epsilon$ - $\delta$  language often seen in mathematical analysis.

JUN 2013 Introduction to Computer Science and Programming **edX**  
This course broadened my horizons and introduced me to many topics in computer science.

Nov 2012 Introduction to Logic **Coursera**  
I was one of earliest MOOC learners in China. Perhaps due to my life-long interest in formal logic, this course was one of my first MOOCs.