Lei ZHAO

PERSONAL DATA

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WORK EXPERIENCE

FEB–DEC 2017	**Python programmer at MESOOR, Shanghai** *Web Crawler and Front-end Development* I wrote web crawler using pyspider 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 web driver technology and help our client 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** *Full-stack Development* 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

SEPT 2014– JUN 2017	**Zhuanke Certificate of Graduation in COMPUTER SCIENCE** **SJTU**, 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	**Cornell College**, 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

Basic Knowledge: Bash, GNU toolchain, XQuery, x86 ISA, Redis, MongoDB
Intermediate Knowledge: Python, JavasScript, PostgreSQL, MySQL, Clojure, C, Angular, Java, Scala, LaTeX

LANGUAGES

CHINESE: Native
ENGLISH: Proficient
RUSSIAN: Rudimentary

Honors and Awards

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

May 2015   Linear Algebra - Foundations to Frontiers   **edX**

This was my first exposure to MATLAB and I learned about FLAME methodology for systematically developing dense linear algebra library.

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 ϵ-δ 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.