

Tao Lin

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EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science

M.S. in Computer Science, Machine Learning Track

Expected Feb. 2017

Beijing University of Posts and Telecoms, School of Information and Communication Engineering

B.Eng. in Communication Engineering, 3.72/4.00

June 2015

WORK EXPERIENCE

Oracle

Mar. 2015 - Jul. 2015

R&D Intern @ Beijing Research and Development Center

Beijing, China

- Developed new network switching features for HCTS (Hardware Certification Test Suite) on Solaris, including Link Speed, Jumbo Frame, Port Mirroring, Link Aggregation. Wrote white-box test cases for troubleshooting.
- Automated and streamlined procedures of test environment configuration. Set up LDOM and Oracle Kernel Zone for virtualization testing.
- Independently built up an intern management system following MVC design pattern. Used Django for back-end ORM management, PostgreSQL for database, Bootstrap for front-end rendering.

Intel Corporation

Aug. 2014 - Jan. 2015

Software Development Intern @ Software and Service Innovation Center

Beijing, China

- Developed W-Bench in Python and Shell – a virtualization benchmarking tool for Linux server clusters by testing load capacity. Implemented modules including KVM-QEMU kernel calling, SSH authentication removing, automatic DHCP configuration and IP allocation.
- Wrote stress-verification scripts using FIO and Super-Pi. Implemented a GUI for test initialization and flow control by Node.js. Set up a Git server for code version control. Managed and maintained our datacenter.

PROJECTS

Chinese Sentic Computing

Feb. 2014 - Jun. 2014

Undergraduate Research Assistant

Tsinghua University, Beijing

- Researched on sentiment analysis algorithms at the Center for Speech and Language Technologies (CSLT). Testified a new sentiment learning algorithm based on SVM and ELM.
- Developed a translation API using HowNet and Google Translate. Converted culturally independent knowledge from English to Chinese. Implemented a commonsense-level sentimental corpus according to SenticNet.

“Chip Bank”

Jun. 2013 - Jan. 2014

Project Leader

BUPT, Beijing

- Researched and designed an efficient recognition algorithm to optically identify the type of IC-chips based on OCR. Established an embedded repository system which intelligently stores/retrieves IC-chips.
- Coded in C/C++ on major parts of the algorithm, including image noise reduction, page segmentation, character recognition. Wrote the paper describing my algorithm.

Text Retrieval

Feb. 2013 - Apr. 2013

Project Member

BUPT, Beijing

- Wrote a web crawler to retrieve e-book information from e-libraries, featured by text filtration, automatic reconnection, real-time storage.
- Designed regular expressions, exception handling, URL format analysis.

PAPER

An Improved OCR Recognition Algorithm of Electronic Components Based on Self-adaptation of Multifont Template
Tao Lin, Zhuqing Jia. Accepted by *International Conference on Image Processing 2015*.

SKILLS

Computer Languages

Java, C/C++, Python, Shell, JavaScript, MATLAB, HTML5, PHP

Databases

MySQL, PostgreSQL, SQLite, Oracle

Tools

Git, Hadoop, OpenStack, Docker, AD Domain, AWS, Vim, Emacs, L^AT_EX

Webs

Servlet, Django, Node.js, Tomcat, Bootstrap, LAMP, Socket, WordPress