

Shichao An

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EDUCATION

- **New York University** 09/2012 – 05/2014 (exp.)
Courant Institute of Mathematical Sciences
M.S. Candidate in Computer Science
 - **Relevant Courses:** Programming Languages, Fundamental Algorithms, Operating Systems, Database Systems, Cloud Computing, Open Source Tools, Multicore Processors
 - **Current GPA:** 3.8/4.0
- **University of Science and Technology Beijing** (Beijing, China) 09/2008 – 06/2012
School of Computer and Communication Engineering
B.S. in Computer Science
 - **Major GPA:** 3.6/4.0

PROJECTS

- **GeoPort** (geoport.co) 11/2013 – present
 - Designed architecture and implemented the Web applications with Django and MongoDB
 - Facilitated on-map real-time location sharing with Google Maps and client-side JavaScript
 - Conducted software configuration management and maintained documentation wiki
- **SoundMeter** 12/2013 – 01/2014
 - Implemented a command-line tool to obtain real-time sound power with audio input devices
 - Leveraged PortAudio libraries to enable portability on Linux and OS X
- **Python and Parallel Programming** 10/2013 – 12/2013
 - Experimented writing applications with *threading*, *multiprocessing* modules of the standard library and OpenMP in Cython
 - Analyzed different types of parallelism and compared the approaches in terms of performance and development efficiency

EXPERIENCE

- **SIGNL** (New York) 06/2013 – 08/2013
Software Development Intern
 - Developed site backends, reusable applications and front-end features, including authentication, content management, activity stream, security and search engine optimization
 - Used Django, MySQL, MongoDB, Redis and Celery for the backend implementation of major site functionalities and real-time data aggregation
- **iBeiKe.com** (Beijing, China) 07/2011 – 06/2012
System Administrator (Department of Network)
 - Deployed upgrades, extensions and maintenance scripts for Web applications
 - Automated the formatting and uploads of mass text and captured news from official sources to the MediaWiki-based subsite, iBeiKe Wiki, through API with Python and Pywikibot

SKILLS

Programming Languages:

Proficient: Python, C, shell scripting

Intermediate: JavaScript, Java, PHP, Perl

Software and Tools: Git, \LaTeX , Vim, KVM, Puppet, Selenium, Amazon Web Services, WordPress

Web Development: HTML5, Django, jQuery

Databases: MySQL, Oracle, MongoDB

Operating Systems: Linux (Fedora/RHEL/Ubuntu), OS X

CERTIFICATIONS

- **Red Hat Certified Engineer** (RHCE)