

# Shichao An

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[www.shichao-an.info](http://www.shichao-an.info) • [github.com/shichao-an](https://github.com/shichao-an)

## EDUCATION

### • New York University

09/2012 – 05/2014 (exp.)

M.S. Candidate in Computer Science, GPA: 3.8/4.0

- **Relevant Courses:** Programming Languages, Fundamental Algorithms, Operating Systems, Database Systems, Cloud Computing, Open Source Tools, Multicore Processors

### • University of Science and Technology Beijing (Beijing, China)

09/2008 – 06/2012

B.S. in Computer Science, GPA: 3.6/4.0

## PROJECTS

### • **Adium Shell**, Shell Utilities and Python Wrapper for Adium IM

03/2014 – present

- Implemented shell utilities, wrapper interface and AppleScript scripts that access Adium features
- Extended the interface with event handling by parsing chat logs, using Watchdog library that leverages Kqueue and FSEvents on OS X
- Enabled automatic conversation feature that supports pattern-based and user-extended chat methods, and external chatterbot APIs such as SimSimi

### • **GeoPort**, Geo-Social Platform

11/2013 – present

- Designed architecture and implemented applications with Django, MongoDB and MongoEngine
- Facilitated on-map real-time location sharing with Google Maps and client-side JavaScript
- Conducted software configuration management and maintained documentation wiki for the team

### • **SoundMeter**, Simple Command-Line Sound Level Meter

12/2013 – 01/2014

- Built a command-line tool able to obtain sound level in real time with audio input devices based on PortAudio and PyAudio libraries
- Implemented the meter that supports event triggering and the extensible monitor API

### • **Python and Parallel Programming**, Multicore Processors Course Project

10/2013 – 12/2013

- Experimented writing and profiling parallelized programs 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, NY)

06/2013 – 08/2013

Software Development Intern

- Developed site features and reusable applications related to authentication, content management, request security, and feed system using Django
- Used Redis cache to implement the activity stream system that records company page views and follows, pushing notifications to users
- Implemented news processing component able to highlight keyword sentences for the feed page
- Wrote an adaptive web crawler that scraps social accounts and mobile app identifiers

### • **iBeiKe.com** (Beijing, China)

07/2011 – 06/2012

System Administrator

- Deployed upgrades, extensions and maintenance scripts for content management systems (PHP) hosted on the Linux server
- 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:

Advanced: Python, C, Bash scripting

Intermediate: JavaScript, Java, PHP, Perl

### Web Development: HTML5, Django, jQuery, Bootstrap

**Databases:** MySQL, MongoDB, Oracle

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

**Software and Technologies:** Vim, Git, KVM, Puppet, Selenium, Amazon Web Services

## CERTIFICATIONS

### • **Red Hat Certified Engineer** (RHCE)

### • **Red Hat Certified System Administrator** (RHCSA)