Shichao An

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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 Utility and Python Wrapper for Adium   *03/2014 – present*

  - Implemented shell utilities, wrapper interface and AppleScript scripts that accesses Adium features
  - Extended the interface with event handling by parsing chat logs, using Watchdog library that leveraged Kqueue and FSEvents on OS X

- **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*

  - Implemented command-line tool able to obtain real-time sound power with audio input devices
  - Leveraged PortAudio and PyAudio libraries to enable portability on Linux and OS X

- **Python and Parallel Programming**, Course Project of Multicore Processors   *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)   *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 activity stream that records page-views and follows and pushes notifications to users
  - Implemented news processing component able to generate highlight sentences for 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 (Department of Network)

  - Deployed upgrades, extensions and maintenance scripts for web 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: **Web Development:** HTML5, Django, jQuery

Proficient: Python, C, shell scripting   **Databases:** MySQL, Oracle, MongoDB

Intermediate: JavaScript, Java, PHP, Perl   **Operating Systems:** Linux (Fedora/RHEL/Ubuntu), OS X

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

CERTIFICATIONS

- **Red Hat Certified Engineer** (RHCE)
- **Red Hat Certified System Administrator** (RHCSA)