

# David Branner

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## Education

### Recent

- **Recurse Center**, New York. Programming retreat (not a bootcamp) February–May, 2013; February–May, 2014.
- Undergraduate minor, **Computer Science**, City College (NY, 2010–2012). **Curriculum:** Python/C++/Java, discrete math, graph theory, probability theory, data structures, algorithms, theoretical computer science.

### Degrees

- M.A., Ph.D. **Asian Linguistics**. Department of Asian Languages & Literatures, University of Washington
- B.A. **Chinese**. Department of East Asian Languages and Cultures, Columbia University

## Projects

### Programming

**Python, SQL, HTML,  $\LaTeX$ , Vagrant, Docker, Pytest, Bash, Git, regular expressions**, and other open-source and commercial tools. Personal projects:

- **Globbering**: Global Wildcard Expansion; uses a queue rather than recursion. (Python.)
- **Natural Language URL-Shortener**: URL-shortener that produces pronounceable but still very short URL-paths. (Flask, Python, CSS, SQL.)
- **Web Framework**: From-scratch web framework, done in a few hours as a challenge problem. (Python.)
- **AlgorithmPlay**: Implementation of various data structures and algorithms in Python.
- **Regex Blaster**: arcade game to let user practice writing regular expressions. (Python, Ncurses,)
- **WeatherStudy**: Forecasters predict the weather many days in advance for any given location. How do those predictions change as the target date approaches? (Python, SQLite3, weather APIs, Numpy, Matplotlib.)
- **Program to report stock prices and headlines** from API and by scraping, with output to paper via  $\LaTeX$ , for the use of an elderly person who does not have a computer. (Python, BeautifulSoup4, SQLite3,  $\LaTeX$ .)
- **Scraper for Wikipedia Chinese subdomain pages** (avoids use of database). (LXML, Python)

### Blog

Miscellaneous blog at <http://dpb.bitbucket.org>.

### Organizer

**Data-Rave meetup**, dedicated to big (and small) data; founded Spring, 2014.

## Experience

2014–

**Test Engineer**, MediaMath, New York. Responsibilities: discovery, exploration, and repair of software defects. Responsibilities include teaching classes in Python to junior developers and regular code review.

2013–2014

**Member**, Institute for Advanced Study, Princeton, NJ. Responsibilities: research on Chinese language.

2008–2009

**Director of Chinese Lexicography and Syntactic Analysis**, Meaningful Machines LLC, New York (machine translation). Responsibilities:

- adapting Chinese syntactic analysis for application to machine translation
- hiring and supervising a team of 10 Chinese-English bilingual lexicographers

2007–2014

**Adjunct Associate Professor**, Dept. of East Asian Languages and Cultures, Columbia University. Responsibilities: Teaching Chinese graduate courses (with original syllabuses).

2003–2008

**Resident Fellow, Maryland Institute for Technology in the Humanities**. Developed two Chinese linguistics databases.

**Associate Professor and Director, Chinese Language Program**, Dept. of Asian and East European Languages, University of Maryland. Responsibilities: Directed the undergraduate Chinese program:

- hiring and supervising 8 faculty, serving 700 students
- full responsibility for budget and grant applications, curriculum, and all aspects of Program

### Skills

Fluent in **Chinese**. In addition, I greatly enjoy the process of **testing**, refactoring, and documenting code.