

# David Ouyang Moench

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## EDUCATION

**University Of Texas**, Austin, TX

*Fall 12-Fall 14*

*Degree:* Bachelor of Science in Computer Science

*GPA:* 3.98

**Wesleyan University**, Middletown, CT

*Fall 05-Spr 09*

*Degree:* Bachelor of Arts Degree, May 2009, Honors In Music

### Relevant Coursework:

CS: Data Structures and Algorithms, Operating Systems, Software Engineering, Graphics

Math: Differential/Integral/Multivariable Calculus, Probability, Linear Algebra

## CODE

**Skills:** C++, Python, C, JavaScript, Java, UNIX, Git, OpenGL, WebGL, Django, Flask, SQL, CoffeeScript, Linode, Android, Matplotlib, PHP, jQuery, RESTful APIs

**Github:** <https://github.com/domoench>

## EXPERIENCE

**UT Austin Computational Visualization Center**, *Research Assistant*. Austin, TX

*Sum 14*

Obtained funding, conducted research, and implemented a software tool with Python and Matplotlib for use by neuroscience researchers to visualize neuronal connectomics data acquired through fMRI.

**Arc90**, *Development Intern*. New York, NY

*Sum 13*

Worked within a small team and with a mentor to develop web software for one of Arc90's major clients. Architected, implemented, and demonstrated a Javascript version-notification module, updated existing codebase to comply with Google Maps API v3, and added features to a Python application to automate deployment of Arc90 software over the AWS Elastic Beanstalk service.

**Freelance Web Development**

*Sum 11-Sum 14*

Developed customized personal websites and content management systems for clients using Python, PHP, Flask, JavaScript, and the jQuery library. Hosted client sites on a Linode VPS.

**Code And Theory**, *Engineering Intern*. New York, NY

*Sum 12*

Worked with the engineering team on back-end and front-end development of client web applications using PHP, JavaScript, the CodeIgniter framework, and Git version control. Also participated in the QA process on both sides: reporting and fixing bugs.

**iN Demand**, *Metadata Library Coordinator*. New York, NY

*Spr 10-Sum 11*

Formatted and uploaded metadata for distribution to Comcast, Time-Warner, and other networks via the Vutopia and Infinity channels. Scheduled content on the Infinity and Events On Demand channels. Coordinated with the development team on improvements to in-house software systems.

**New York International Fringe Festival**, *Composer/Music Director*. New York, NY

*Sum 08*

Composed and conducted an original score for a seven-piece ensemble in synchronization with a theater piece in the Fringe Festival. Directed all musical aspects of the production including ensemble auditions, scheduling, rehearsals, and engineering a studio recording session.

**WesWell**, *Northern Shaolin Kung Fu Instructor*. Middletown, CT

*Fall 07*

Designed and instructed a course for the Wesleyan Health Education Department teaching the fundamental movements and training techniques of Northern Shaolin Kung Fu.

## OTHER

**Language:** Elementary Chinese

**Interests and Hobbies:** Music Composition, Guitar, Web Development, Bike Commuting and Repair, Jiu Jitsu