

# CRAIG BROWN

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## EDUCATION

- **The George Washington University** Sept 2008 – May 2012  
School of Engineering and Applied Science  
Washington, DC  
Majors: B.A. Computer Science (May 2012)  
– Digital Media Concentration  
B.S. Economics (May 2012)
- **National University of Singapore** Aug 2010 – Dec 2010  
School of Computing – Student Exchange Program  
Lower Kent Ridge Road, Singapore
- **General Assembly – NYC** Dec 2013 – March 2014  
Intensive Non Degree Program – 12 weeks  
New York, NY  
Subject: User Experience Design (March 2014)

## SKILLS

### Programming Languages

Python, Javascript, HTML, CSS, SQL, XML | Familiar with: C/C++, OpenSCAD

### Software

Omnigraffle, Tumult Hype, Photoshop, Invision, | Familiar with: Flash, Illustrator, MS Blend  
Inkscape, 3D Studio Max, Stata, Excel

### Tools & Frameworks

Firebase, Bootstrap, Express.js, Responsive Grid System | Familiar with: Django, WPF

## RECENT PROJECTS & VOLUNTEER CONSULTING

### SoundCloud Audio Visualizer

January 2015

Javascript Application – Personal Project

- JS app to convert soundcloud waveforms into array of floats, used to manipulate several on page animations.
- Sounds gathered from my soundcloud page using RESTful soundcloud javascript SDK.
- HTML5 Animations built from scratch using Tumult Hype, with embedded javascript.
- Leveraged soundcloudwaveform (node.js module) to process waveforms into array of amplitudes (normalized floats).
- Waveform data asynchronously stored/read as JSON from a firebase db instance.

### REDACTED Health Information Services Non Profit

September 2014 – Present

UX/UI Developer – Volunteer

New York, NY

- Performed multifunctional "UX/UI Developer" role, serving as UX Designer, Front End Developer, and Graphic Designer across the entire new build of the website.
- Performed 6 stakeholder interviews to garner an understanding of the organization's design priorities.
- Generated a full set of responsive Omnigraffle wireframes, using the current development site as a basis for the site's core components
- Translated wireframes into HTML, CSS, Javascript and PHP code, working with the development team to redefine data models and PHP content control where needed to fit wireframes.
- Work scheduled to be live end of April 2015

## WORK EXPERIENCE

### JPMorgan Chase & Co

July 2012 – Present

Lead Developer (As of February 2014)

New York, NY

- Developed UI code in python for a new securities analytics application, including generic templates for extensibility.
- Developed back end support for daily pricing feeds interfacing with an internally developed SQL based DBMS.
- Lead a team of 8 developers across 2 teams to deliver the 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> releases a securities revaluation project.
- Wrote technical documentation describing price testing calculations for multiple applications across my team.
- Organized and led several major meetings (up to 39 people) with both internal and external business partners across Wall Street.

### GWU Instructional Technology Lab

March 2011 – December 2011

MS Surface Development Intern

Washington, DC

- Pioneering multi touch, NUI based software applications for the Microsoft Surface.
- Developed a 3D campus map application based on a Bing maps control, using C# and XAML.
- Wire-framed and developed a multi touch, interactive tutoring application.

## **University of Maryland (UMBC)**

May 2011 – July 2011

DREU Research Fellow (Paper published in TEI 2012)

Baltimore, MD

- Conceived and developed a software system for blind individuals to automatically and rapidly generate tangible 3D derivatives of traditional 2D graphs using 3D printers.
- Integrated three major open source projects via Python and OpenSCAD scripts.
- Conducted user studies to garner feedback from visually impaired professionals in economics, statistics, and technology.

## **Disaster Accountability Project**

May 2010 – July 2010

Web Development and Graphic Design Intern

New York, NY

- Developed PHP, HTML, and CSS code for the prototype of the new Disaster Accountability website.
- Graphic design included a conference poster, pamphlet, and invitation card for a conference, all done in Photoshop.

## **ACTIVITIES**

### **GW Asian Business Association – America**

Fall 2011 – Spring 2012

Co-Founder and VP Technology

- Technical Communications Director, Website Developer/Master, and co-founding member of a professional organization geared around Asian business practices and culture.

### **Delta Sigma Pi – Xi Rho Chapter**

Spring 2010 – Spring 2012

Brother

- Active brother of a professional business and economics fraternity.

### **GW Bhangra Competitive Dance Team**

Fall 2008 – Spring 2009

Dancer and Designer

- Danced competitively and designed flyers for team fund raising events.