

## Professional experience

### **NPR, Washington D.C.**

*Senior Supervising Editor, Visuals Team, 2016 - Present*  
*Technical Architect, Visuals Team, 2014 - 2016*

Managed team, developed projects such as presidential debate fact-check, ran internship program, analyzed data for reporting, produced award-winning web stories, covered elections (2014 and 2016), oversaw open source efforts.

### **Chicago Tribune, Chicago, IL**

*New Applications Developer, 2012 - 2014*

Developed award-winning projects and built successful open source tools including Tarbell publishing platform, story production, data driven news applications such as Crime in Chicagoland and elections.

### **Fermi National Accelerator Lab, Batavia, IL**

*Contract Drupal developer, 2010-2012*

Created E-Center, a web-based tool to visualize and discuss network performance data. Visualized data from a highly-scalable web service using Drupal, OpenLayers, Raphael, jqPlot, and jQuery.

### **Progress Illinois, Chicago, IL**

*Freelance Drupal developer, 2009 - 2010, 2011*

Lead developer and sysadmin for regional politics site. Developed & implemented new design and CMS upgrade to in collaboration with designer and editor which significantly increased traffic & engagement.

### **Chicago Technology Cooperative, Chicago, IL**

*Drupal Developer, 2007 - 2009*

Worked on Drupal projects including Chicago Public Radio's Vocolo.org project. Specialized in module development, theming, user interface, jQuery, and client relations.

### **Spear Research, Forest Park, IL**

*Lead Developer & Data Analyst, 2006-2007*

Built custom PHP applications for Qualcomm and Verizon market studies.

### **Sargent Shriver Nat'l Center on Poverty Law, Chicago, IL**

*Webmaster/System Administrator, 2004-2006*

Oversaw all technology decisions, maintained Linux and Windows servers and websites.

## Projects

### **Supreme Chi-Town Coding Crew (2012-2014)**

A weekly workshop to teach hackers data journalism and journalists fundamental web skills. Projects include scraping Cook County Jail data and site production.

### **FreeGeek Chicago (2005-2012)**

I helped start and run FreeGeek Chicago, a 501(c)(3) non-profit that recycles used electronic equipment to provide functional computers, education and skills training in exchange for community service.

### **Invisible Institute (2001-2009)**

Created and maintained The View From The Ground, an early blog that covered Chicago public housing.

## Speaking & teaching

I speak about and teach practical technology skills. I've presented at Data Science Taipei (2015), NICAR (2014 + 2015), Migrahack (Chicago 2013, Mexico City 2014, Tucson 2015), OpenGov Chicago (Elections, Crime, Tarbell), at DrupalCon Europe (2008), at Deloitte's regional tech conference (2007), and provided expert witness (2007, 2015).

## Expertise

**Content management frameworks:** Tarbell, Flask, Django, Drupal 6, Drupal 7, Wordpress, Jekyll.

**UI planning & design:** Skilled in UI/UX discovery exercises and user-centered design.

**System administration:** Linux (Debian, Ubuntu, Red Hat Enterprise Linux), Cloud services (Amazon Web Services), Web servers (Apache, Nginx), caching/proxying (Varnish), fulltext search (solr, Elasticsearch), databases (MySQL, PostgreSQL), deployment (Fabric), queuing (Celery).

**Web technologies:** HTML5, responsive design, CSS3, Javascript, jQuery, Backbone, D3, Leaflet.

## Education

Bachelors of Science, Physics: North Park University, Chicago, IL, 2003 (with honors)