

# Daniel Delany

## Curriculum Vitae



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I'm a data-driven, design-minded web engineer at Spotify in New York City. I'm interested in all sorts of things like music, outer space, data journalism, hacker spaces, slam poetry and robotics. I'm always happy to hear about new opportunities, so feel free to drop me a line!

For my full CV and portfolio, please visit [cognitiveharmony.net/resume](http://cognitiveharmony.net/resume). You can find my public Github profile at [github.com/dandelany](https://github.com/dandelany).

## Technologies

- **Web Front End:** Javascript/HTML/CSS guru (10+ yrs), React (3 yrs), Redux, Webpack, D3, Lodash, Backbone, JQuery & others, interfacing with HTTP & WebSocket APIs.
- **Web Back End:** Apps and REST APIs in Node (3+ yrs), Python (Django), PHP and C#; database experience with BigQuery, MongoDB, MySQL and SQLite, custom modules for content management systems (WordPress, Drupal).
- **Data Visualization:** Interactive data graphics in SVG, Canvas and WebGL using D3 and REGL; core developer of Reactochart library.
- **Other Programming:** Java, C, Arduino C, Perl and Bash scripts.
- **Software:** Adobe Creative Suite (Photoshop, Illustrator), 3D CAD (Fusion 360, Rhinoceros, SketchUp), Excel.
- **OS:** Windows, Mac OS, Linux, experience with UNIX shell.

## Professional Experience

- **Spotify** - Senior Front end Developer / Creative Technologist, Data Team (June 2015–Present)
  - Led front end development of two widely-used internal data analysis apps (React/Redux), and helped establish teams to maintain & improve them.
  - Created Reactochart, an open-source library of React chart components, and spearheaded its adoption by other teams internally.
  - Designed & built exploratory data projects using technologies including WebGL, React Native and Qlik Sense.
- **Seed Scientific** - Web Developer (December 2014–June 2015)
  - Developed full-stack web apps for data visualization and exploration.
  - Acquired by Spotify in June 2015 (see above)
- **Enigma** - Frontend Web Developer (August 2013–November 2014)
  - Developed front end search interface for Enigma's web app (JS/Backbone/React).
  - Designed and built interactive data graphics explaining Climate temperature anomalies and 2013 government shutdown; tweeted by Barack Obama and nominated for Information is Beautiful Award.
- **Turntable** - Web Developer/Front-end Architect (2011–July 2013)
  - Now-defunct music web app startup in NYC.
  - Architected and led development of front end for Piki.fm, using jQuery, Backbone and Underscore.

- Worked on Javascript front end for Turntable.fm, added features and refactored existing code.
  - Contributed to unit-tested backend code written in Python interfacing a MongoDB database.
  - Developed an internal metrics dashboard and custom data graphic (using D3.js) visualizing network effect of songs played and replayed on Turntable.fm.
- **Markit on Demand** - Web Developer/Image Engineer (2009–2011) - Boulder, Colorado.
  - Developed chart scripts in C# to generate live visualizations and graphics of live market data
  - Built full-stack web apps in JScript ASP/Javascript for Charles Schwab retail site
  - Contributed to several code libraries shared company-wide
- **Bright Bright Great** - Web Developer (2008-2010) - Chicago, Illinois.
- **Norvax, Inc.** - Web Developer, Marketing Dept. (Summer 2008) – Chicago, Illinois
- **Blue Tent Marketing** - Web Developer (2004-2008) - Basalt & Boulder, Colorado.
- **Computers 4 Kids Foundation** - PC Repair Technician (2002-2004) - Carbondale, Colorado.

## Academia

- University of Colorado at Boulder, BS in Computer Science (3.6 GPA), Class of 2009.
- Awards & Honors:
  - **Boettcher Scholarship** - Most prestigious merit-based scholarship available to high school seniors in Colorado, 40 awarded statewide annually. Offers eight semesters full tuition at any of Colorado's four-year universities or colleges.
  - **SURE Program** - undergraduate stipend for conducting research with a member of the University of Colorado faculty before first year of studies.
  - **Dean's List** – CU Engineering School
- Related Coursework:
  - **Senior Project** - Developing supervised-learning blog categorization algorithm and web application for Lijit Networks, a startup in Boulder.

## Side Projects & Miscellanea

- **Earthy Animation** – Automated Youtube channel of Earth videos from Himawari satellite images, interpolated into smooth video and uploaded via scripts (see Github).
- **Vector Toy** – Browser-based math toy for experimenting with particles in vector fields. Built different versions in Canvas and WebGL to test features and performance (see Github).
- **Mr. Dario** – web-based arcade game written in JS/React/SVG. High scores and (coming soon) multiplayer over WebSockets (see Github).
- Other interests: Space exploration, CNC art, data journalism, alternative user interfaces, robotics, slam poetry.

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