

Zach Denton

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TIMELINE

SCRIBD 2013–2014

Intern - Software Engineering

I work on the Scribd website with a team of four other engineers. We write Ruby and CoffeeScript used by millions every day.

DARTMOUTH COLLEGE 2011–

B.A. in Computer Science

Graduating in June, 2015. My favorite classes have been Kierkegaard and Existentialism, Compilers, and Advanced Sound Design.

FREELANCE 2010–

Development & Design

I do programming and design on the side for a variety of clients.

INTERNET CONNECTION 2010–2012

Web Development

After high school, I took over as the programmer for IC, a 10-person web development and hosting company. The job involved building and maintaining websites written in PHP, Perl, and Python.

FEATURED PROJECTS

Noisehack

noisehack.com

Noisehack is my blog about audio and music hacking. Topics include emulating analog synths in the browser, convolving microphone input with Shepard tones and visualizing the spectrogram, custom DSP effects with the Web Audio API, and 8-bit Arduino music.

Strindberg

strindberg.in

An online document editor built with Meteor and pandoc. Write in any markup language you like; render to any output format you need. Documents are preserved as you type in a custom version control system built inside of MongoDB. Winner of Hack-Princeton 2012.

Hacker News App

hn.meteor.com

I built an improved client for reading Hacker News. It's a responsive web app with color-coded, collapsible comment threads, built-in search, article extraction, and more. It gets the most web traffic of all my sites and has even made some money on the Android Store.

Mandelbro

mandelbro.com

A music visualizer that runs in your web browser, combining Web Audio (for audio analysis), WebGL (several different shader-based visualizations are included), SoundCloud, and the WebMIDI API (to control the visualization with a hardware controller).

SKILLS

ADVANCED

Python, JavaScript, CoffeeScript, Meteor

INTERMEDIATE

C, Ruby, Flask, Express, Android, CSS3, \LaTeX

BASIC

Go, Haskell, Clojure, SuperCollider, WebGL, Arduino

OTHER ENDEAVOURS

spoken languages – English & Swedish.

hacker club – Captain of the Dartmouth Hacker Club. We get together to write code, build circuits, and learn from each other.

hackathons – 1st place, HackPrinceton 2012; PennApps 2013; HackMIT 2013; DAX v.2; Quora ML CodeSprint 2013; Greylock Hackfest 2; TechCrunch Disrupt SF 2013; HAMR in the Woods.

open source – In addition to over 40 of my own projects, I've contributed to python-readability, beets, tuna.js, and whatmp3.

Twine

twinebot.com

Twine is the Twitter command line. It enables you to execute context-aware scripts through Twitter. For example, you can save a tweet to your Dropbox by replying to it with the command, "dropship". Within seconds, Dropbox will notify you about the new file.

Course Picker

courses.hackdartmouth.org

A web app which lets you search for classes based on student reviews, median grades, and other criteria. Most Dartmouth students use it when shopping for classes. I built the front-end and a scraper to extract information from the course catalog.

GNEON

gneon.co

GNEON (a clothing company) asked me to build their new site. It's a bit flashier than your typical shopping site. When you click on the logo, their SoundCloud music starts playing, the logo, links, and buttons start changing colors, and everything lights up in time with the beat.

Grimoire

grimoire.in

A web app which turns websites into eBooks. It can send a weekly digest of your favorite blog or RSS feed to your Kindle on a recurring basis. I use it to read my unread Pinboard bookmarks on my Kindle every week. Built with Django, pandoc, Calibre, and python-readability.