

Jonathan Dahan

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about

Developer who enjoys recombining hardware to create new interactions, building web applications that connect people, improving communication through technology and experimenting with audiovisual art.

work

Software Engineer [Etsy](#) | Winter 2016 -

Full-stack software engineer for Etsy.com payments team. Worked on international tax compliance for expanding to new markets, improving the payment processor state machine and api.

Rogue Developer [Bard Graduate Center](#) | Winter 2014 - Spring 2015

Created interactives for five different platforms, illustrating the differences in HCI over 30 years. Wrote BASIC for the Commodore 64, HyperTalk for the Mac Plus, native C for the Palm Pilot Professional, javascript/canvas for iOS, and C++/openFrameworks for the kinect. Installed in gallery to be up for 3 months, open to the public.

Adjunct Professor [Parsons / The New School](#) | Fall 2014

Designed and taught a course for incoming design students on programming. We covered topics such as binary numbers, data structures, file manipulation, networking, servers, drawing and interaction using p5js, nodejs, and arduino.

Rogue Developer [Lab@Rockwell](#), [Fake Love](#) | Winter 2014 - Summer 2015

Built canvas-based frontend for malls to create digital signage for lab@rockwell. For fakelove, created backend api and email generation and queueing system to reach out to any person who interacted with an iPad frontend.

Teacher [school for poetic computation](#) | Spring 2013, 2014

Taught classes on the raspberry pi, networking, apis, the commandline, and glitch art.

Media Technology Developer [Metropolitan Museum of Art](#) | Spring 2012 - Summer 2014

Develop in-gallery interactives (virtual touchbook, twitter plain or fancy interactive), html+coffeescript+css based. Build collections api in node.js for external use (see Iconoclashes). Manage 3D hackathon with two dozen artists. Setup projector visualisations for LIARS concert in dendur. Work with bluetooth beacons for wayfinding in galleries. Develop open source image recognition software.

Bit Wizard [Bug Labs](#) | Spring 2011 - Fall 2011

Create getting started guide and tutorial application using jade, LESS and CoffeeScript for the BUG hardware prototyping platform, making it easier for new developers to quickly understand the components of the stack.

Write CoffeeScript/Mocha BDD tests for javascript libraries that interface with custom messaging platform.

Create tutorial and sample web applications using jQuery and Arduino to help new developer ramp-up.

Web Developer [Cold Spring Harbor Labs](#) | Fall 2010-2011

Redesign and implement ruby-on-rails laboratory information management system for experimental pipeline, helping speed up data entry and retrieval.

Cluster Sysadmin [SUNY Stonybrook Research Foundation](#) | 2007-2011

Maintain three debian-based, netbooting supercomputing clusters with a team of administrators.

Web Developer [Chyron](#) | Summer 2008

QA test Flash / ActionScript 3 broadcast weather system, speeding up time-to-market for broadcast partners.

Developer [Nu Horizons](#) | Summers 2003-2005

Create and maintain ASP/MSSQL parametric search systems, quiz software and parts order forms, helping keep salesman knowledge up-to-date and correct.

communities

~~hacker school~~ [recurse center](#) participant, where I created a custom NES/famicom controller that could playback emulator speedruns on real hardware, build the basics of a blockchain client in rust, and learned a bit about networking layers.

[school for poetic computation](#) student and teacher

programmed and painted a [piet](#) program whose source is just a bitmap

built a [network sonifier](#) to make it easier to understand what is going on with your machine and the rest of a local network
made a collaborative light drawing robot out of an old pen plotter

skills

languages Java, C++/OpenFrameworks, C, HTML+CSS, Bash, Ruby, Python, CoffeeScript, JavaScript

software Linux Administration, Arduino, Processing, OSC, MIDI, git

hardware Arduino, Android, Beaglebone Black, NES/Famicom

projects

0-Player Famicom Figured out how to do automagic playback of speedruns on an unmodified famicom/NES using an arduino. Working on sniffing the data and address busses for cart identification using a Beaglebone Black.

BadgeAssassin Built a game of [assassin](#) at [CCC](#) using the [camp badges](#) as local radar. Confused all nonparticipants.

Polyplayer Synth Creation of multi-person network/phone-controlled motors and relays using OSC and arduinos

Space Balloon Photography of the tri-state area and captured the curvature of the earth from 34,000m with over-the-shelf hardware

Exherbo Linux Packaging around 100 applications for the exherbo linux distribution, contributing to user documentation

AMD at HOPE Built API to access live position tracking of thousands of attendees of a three-day conference, enabling developers to create games on the platform

events

[Museum Computer Network](#) , [EyeO Festival](#) , [Museums and the Web](#) , [MLG Providence](#) , [Chaos Communications Camp](#) , [The Last Hope](#) , [The Next Hope](#)

organizations

Founded [Island Labs](#) hackerspace, Fall 2008

President of the [Linux Users Group at Stony Brook](#) , 2008

Brother of [Sigma Nu](#) , Delta Sigma chapter, matriculated 2007

education

Bachelors of Computer Science / Digital Arts from Stony Brook University, Fall 2010

Attended Computer Science program at Carnegie Mellon University, 2005-2007