

Hiroki Osame

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Education

Boston University, Boston, MA — Bachelor of Computer Science

2011 — 2015

Experience

Weebly <Landon Durnan, Matt DeClaire>

San Francisco, CA

July 2015 — June 2018

- Design Engineering team: implemented and helped design Weebly's design-language *Orbit*, a library of 40+ components, using [Vue.js](#). Coordinated UI and UX needs from product teams with Design and ideated and implemented solutions. Contributed features and bug fixes to the [Vue.js](#) project.
- eCommerce team: planned & implemented the new checkout process of Weebly websites, led the internal store-management overhaul project, and brought the adoption of stricter coding discipline and paradigms.
- Worked on the Site Home team and Internal tools team, and frequently worked out-of-role with other teams.

Rakuten Loyalty <Antoine Hage, Fady Matar>

Boston, MA

May 2014 — Sep 2014

- Developed a REST server handler that consolidates data from HEAD, GET, POST, and Cookies by priority
- Migrated their stack to Express 4 followed by intense testing — an extremely fragile procedure given that they had many middle-wares that interacted with the obscured properties of Express (eg. their own session store)
- Worked with the CTO to develop a session module that manages multiple service sessions

Retroficiency <Bryan Long, Ian Walter>

Boston, MA

Jun 2013 — Sep 2013

- Data Mining: developed a PDF parser that mined 4,000+ documents and a smart web-crawler.
- Contributed to a [Backbone.js](#) based open source project they are utilizing on their website: [Search.js](#).
- Wrote performance testers using [Mocha](#), [Should.js](#), [Supertest](#), and [PhantomJS](#).

2nd Boston Cleanweb Hackathon 2nd Place and Audience Favorite

Boston, MA

Apr 2013

- My team participated in the [2nd Boston Cleanweb Hackathon](#) sponsored by [EnerNOC](#) and [MassCEC](#), and supported by the [White House Office of Science and Technology Policy](#) and the [US Department of Energy](#).
- [GreenCaptcha](#): captcha repurposed with games that positively reinforce environmental behavior and environmentally informative facts that are relevant to the user.

Evernote's Tufts Hackathon First Place

Medford, MA

Feb 2013

- Created [Collab.io](#): web app for collaborative education backed by [Express.js](#), [Socket.io](#), and the Evernote API.
- My team competed against 142 competitors and our project was awarded the highest prize of the *Evernote Grand Prize* — "The best overall project in design, utility, api usage, and originality."

Ufoniq (<http://ufoniq.com>)

Boston, MA

Jun 2011 — Sept 2012

- Developed a website that automatically aggregates trending music — a one-man project I am proud of.
 - Uses a specially designed algorithm that matches news of the latest music with YouTube videos for reliable popularity statistics, to generate an up-to-date but very accurate ranking.
- Worked extensively with object-oriented programming, scalable data structures, and minimalistic UI designs.

Security Reports

Reported Web Vulnerabilities for BU <Quinn Shamblin, Azer Bestavros, Mark Crovella>

Boston, MA

Jan 2014

Jan '13 — Privacy breach revealing grades, schedules, etc. of any student on the [BU Student Link](#) website.

Jan '13 — XSS vulnerability on the [BU Student Link](#) website.

Feb '13 — Awarded a *Personal Commendation for Meritorious Service* certificate by BU's executive director of information security.

Jan '14 — Vulnerability that allows illegitimate download of server content (eg. submitted homework) and XSS vulnerabilities on [Websubmit](#).

May '14 — XSS vulnerability obscured by server-side configuration on BU's systemwide authentication system [WebLogin](#) that allowed me to intercept/sniff the login process of any BU member. Developed and reported a demo exploit promptly.

Skills

Languages:

English (native)

Japanese (native)

Programming:

Javascript / Node.js (adv)

PHP (adv)

MySQL / MongoDB (adv)

Redis / Memcached

Python (adv)

MVCs (Vanilla / Backbone.js)

Java (inter)

C / C++ (beg)

UNIX (inter)