**Brian Krentz**

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Cambridge, MA 02138

**Education**

**Harvard College** Cambridge, MA BS Electrical Engineering. Coursework in Computer Science, Multivariable Calculus May 2017

Linear Algebra, Circuit Design, and Physics (mechanics and relativity). GPA: 3.59/4.0

**Summer 2014 HBX | Harvard Business School** Cambridge, MA

HBX Credential of Readiness (CORe) – Passed with High Honors. September 2014

Coursework in Economics, Financial Accounting, and Business Analytics

**New Trier High School** Winnetka, IL

Top 10% of Class, Honor Roll, National Mathematics Honor Society, May 2013

AP Scholar with Distinction, National Chinese Honors Society

**Technical Skills and Languages**

**Languages (in order of proficiency):** C, OCaml, Python, PHP. Familiarity with Javascript, Objective-C, MySQL

**Operating Systems and Programs:** Mac OS X, Windows 7, UNIX, EAGLE, MatLab, FinalCutPro

**Languages:** An intermediate level of Chinese linguistic skills, as well as reading and writing of Chinese characters

**Experience**

**Jordan’s Food of Distinction (JFOD)** May 2014-August 2014

*Intern*

Worked in Chicago, as an all around assistant for any tasks/leadership required, at a high-end catering business. This included assisting in food preparation, setting up and closing down the events (25-300 persons), as well as being a waiter during the event if needed.

**HSA Cleaners** October 2013-January 2014

*Sales Associate*

Worked as a Sales Associate for the largest student run business at Harvard. This included opening the storefront, working as a sales clerk for the dry cleaners, and working customer service.

**Chicago Area** Around Spring 2012 – Fall 2013

*Assistant Skating Coach*

Assisted Cindy Caprel and Kristen Mita in coaching a team of figure skaters in on and off ice warm-up routines and drills as well as in assisting to lead and coordinate a team of skaters at several competitions.

**Projects**

**Inductive Door Opener:** Fall 2014

Worked in a group of two to create a device that could unlock a door after having a correct passcode being “knocked” in. This project utilized a magnetic coil as an NFC device. A piezoelectric sensor generated voltages (from knocking on the door) that were sent through the coil after being passed through an AM circuit. A Hall effect sensor picked this up and demodulated the signal before sending it to a microcontroller, which analyzed the code and unlocked the door.

**Medical Tricorder:** Spring 2014

This project was constructed to bring together all the immediate medical-sensing technologies an EMT might need when they get to an emergency. In a group of three, we built an EKG, hacked a heart-rate monitor/blood-oxygenation sensor, and used a temperature sensor. All of these fed into an Arduino, which would analyze the inputs and print them to a thermal printer.

**Game of Life Music Stream:** Spring 2014

This project (coded in OCaml) constructed Conway’s Game of Life and turned the matrix into a music stream (each row a note, each column a beat). A genetic algorithm was then applied to the music stream in order to make the music more enjoyable to listen to.

**Leadership Experience and Activities**

**Figure Skating:** Competitive from 2003-2013

Member of Team USA (2013); 2013 8th Place Finisher (Junior Level), 2012 6th Place Finisher (Novice Level) - USFS National Championships; 19th - 2013 Junior Grand Prix Baltic Cup in Gdansk, Poland. Awards include: 2013 USFS Scholastic Honors Team; 2013 USFS Alumni Ambassador Award (For being an active volunteer in the figure skating community and beyond); 2013 Platinum Level Graduating Senior (For being an International and National competitor)

**The Crimson:**

Editor at The Crimson for their Technology Board. Work on projects in Python/Django to update and maintain their website. Last project was revamping the MVC for Harvard Today articles.

**Harvard Computer Science:**

Working with a team of 4 to create an Email Tracking/Statistics program that works with GNU Mailman. This can currently track number of emails sent, busiest hour for email traffic, and how many unique opens of an email there were.