Dale Markowitz

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EDUCATION

Princeton University

2011-2015

AB in Computer Science

Departmental GPA: 3.74, Total GPA: 3.6

Relevant Coursework: Artificial Intelligence, Operating Systems, Graph Theory, Reasoning about Computation, Algorithms and Data Structures, HCI Technology, Circuit Design

University College London

Fall 2013

Fall Semester Study Abroad

Relevant Coursework: Distributed Systems and Security, Networked Systems

RELEVANT EXPERIENCE

A Brain-Computer Interface for Sustained Visual Attention

2014-2015

Senior Thesis with Kenneth Norman

Using an wireless EEG headset, designed an system for online analysis of

BeagleCache

Fall 2013, Summer 2014

Fall/Summer Independent Work with Vivek Pai

In order to increase bandwidth in developing world countries, created a network accelerator platform for the Beaglebone Black, a credit-card-sized Linux computer. Implemented HTTP caching as well as compressed HTTP data exchange between high and low bandwidth BeagleCache devices.

SRON: A Software-Defined Overlay Network

Spring 2014

Spring Independent Work with Jennifer Rexford

Designed SRON, a dymanic SDN networking software written in Pyretic, in an attempt to allow Internet Service Providers better control over the paths their data takes through interdomain boundaries by creating an virtual overlay network on top of the physical Internet backbone.

Floored Inc Summer 2013

Hardware Engineering Intern

Built a high-resolution 3D scanner for reconstructing/modeling interior spaces using a precision laser rangefinder and DSLR camera mounted atop a rotating platform.

Entrepreneurs Roundtable Accelerator

Summer 2012

Design Intern

Designed ERA infographic, brochures and marketing material.

EXTRACURRICULAR ACTIVITIES

Princeton Makers Collective

2013-2015

Programs Organizer

Organized programs and events for the Princeton hacking and making group on campus. Brought in speakers from the hackspace NYC Resistor and the 3D printing company Shapeways to give presentations. Organized and taught a class on 3D modeling with OpenScad and Inkscape. Facilitated a collaboration between the Architecture Department and Makers Collective (access to supplies, organized beginners electronics classes).

Princeton Women in Computer Science

2014-2015

Peer Mentor

Provided guidance and recommendations to underclassmen who are considering studying Computer Science.

Orange Key Tours

Summer 2014

Tour Guide

Led tours of the Princeton campus, explaining the academic, extracirricular, and historic aspects of life as a student at Princeton.

Keller Center Fellow

2014-2015

Fellowship Grant Recipient

With a grant from the Keller Center, an organization which promotes entrepreneurship on campus, I ran a workshop on creating USB devices with microcontrollers and novel sensors (foot pedals, light sensors, etc).

Institute of Making at UCL

Fall 2013

Active Member

Member of University College London's MakerSpace, active use of 3D printers, laser cutter, soldering irons, etc.

Hack Classes Instructor

2013

Princeton Entrepreneurship Club

Taught WordPress development class, helped organize iOS and Web development classes.

PUBLICATIONS/PRESENTATIONS

BeagleCache: A Low-Cost, eMMC-Based Caching Proxy for the Developing World

Carnegie Mellon Undergraduate Conference in Information Systems
Publication and presentation won "Most Promising Research".

IoT Device Presentation

2013

Fordham Eighth Law and Information Society symposium

Created and presented an Internet of Things device at the Princeton/Fordham conference, "What Are Your Shoes Saying To Your Car? Assessing the Internet of Things." Designed a wireless, color-changing bedside lamp that, in conjunction with an iOS To-Do application, indicated how much of a To-Do List was completed.

SKILLS

Software Linux (Arch, Ubuntu, Debian, Fedora)

Python

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Javascript/Node

Java

Electronics Eagle (Circuit Design)

Arduino Soldering

Design OpenScad (Parametric 3D modeling)

Photoshop Inkscape