

# DAVE SHARPLES

- address -

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- phone number -

## Education

### University of Pennsylvania

School of Engineering and Applied Science

Candidate for BSE

Major: Digital Media Design

Minor: Fine Arts

GPA: 3.52

(2010-2014 expected)

### University College London

Computer Science Affiliate Student

(Study abroad, Fall 2012)

## Experience

### Interaction Design Intern at VMware

(May 2013 - Present)

- Summer project focused on designing and prototyping an internal tool for analyzing and visualizing user data in an accessible way
- Built a prototype web app to demonstrate core interactions
  - Used AngularJS, Node.js, Express, and MongoDB
- Project was voted 2nd place in company-wide Intern Poster Session

### Intern at DJTechTools

(Summer 2012)

- Redesigned, updated, and shipped the Midi Fighter configuration tool, requiring in-depth knowledge of C++, Javascript, and Qt.
- Created advertisements and hand-drawn art assets
- Worked with CEO to create a mockup of a complete site redesign

### PennApps Hackathon

(9/16/11, 1/13/12, 1/18/13, 9/6/13)

Competed four times in 48-hour app programming contest:

- "BeerSnob" - online beer recommendation engine
- "Marauder's Mapp" - live community geolocation app
- "Beatdown" - top down shooter driven by real-time audio analysis
- "MessLess" - hands-free recipe guide using the Leap Motion

## Projects

### Phase Change

(Spring 2013)

Semester-long project in student-defined course on web technologies. Worked on a 5 person team to create a collaborative music recording and visualization app. It shows others' contributions to your music as a branching tree, allowing users to listen to the combination of recordings down any one branch.

### Poisson Image Editing Application

(Fall 2012)

Implemented a range of Poisson editing features in Matlab based on a paper by Perez et al. Features included linear interpolation and seamless cloning for color and grayscale images.

### The 20/20 Project

(Summer 2011)

Co-created and tested an educational summer camp program centered around 20 day-long challenges intended to inspire adventurousness and confidence in middle and high schoolers.

Visible at <http://davesharpl.es>

## Web Presence

[davesharpl.es](http://davesharpl.es) - personal site

[twitter.com/dsharps](https://twitter.com/dsharps)

[soundcloud.com/dsharps](https://soundcloud.com/dsharps)

## Coursework

Engineering

Image Processing

Web Technologies

Virtual Environments

Algorithms

Design

Information Design

Mechanical Prototyping

Product Design

Software Design

Art

Painting

Sequential Drawing

Digital Illustration

Mixed Media Animation

## Skills

Proficient

Javascript

Matlab

Java

Photoshop

Illustrator

Web Audio API

Traktor Pro

TouchOSC

Familiar

AngularJS

NodeJS

HTML5

MongoDB

C++

Unity

After Effects

Autodesk Maya

Acquiring

iOS Programming

Python