ELLIOT BARTEL

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EDUCATION

Cambridge, MA

Massachusetts Institute of Technology

2012-2016

- · S.B. in Computer Science and Engineering, June 2016.
- · Coursework: Mobile & Sensor Network Computing, Computer Vision, Machine Learning, Design & Analysis of Algorithms, Computer System Engineering, Computational Photography.
- · **Skills**: Python, C++, Java, Tensorflow, Caffe, Pandas, OpenCV.

AWARDS

First Place MIT Deep Learning MiniPlaces Scene Recognition Challenge, out of 20 teams.

Fall 2015

Grand Prize MIT 6.670 iOS Game Development Competition, out of 15 teams.

Winter 2014

First Place Software Design in Final Project, MIT Software Construction Course, out of 60 teams.

Fall 2014

WORK EXPERIENCE

Atlas5D

Dec. 2016 - present

R&D

Computer Vision Research Scientist

- · Worked to create a device which, using a depth sensor, captures clinical-grade motion measurements of patients
- · Trained deep learning classifier with Tensorflow to differentiate a patient from other people
- · Designed and implemented pipeline for processing training data and organizing training and validation sets
- · Researched state of the art object detection and segmentation methods to advise product direction

MIT Computer Science and Artificial Intelligence Lab

Spring 2016

Vision Group

Undergraduate Researcher

- · Evaluated accuracy of convolutional neural networks performing pixel-wise semantic image segmentation
- · Wrote Python scripts using PyCaffe library to test the performance of Caffe-implementations of CNN's on images taken from moving vehicles

Google Inc.

Summer 2015

Android Wear Applications

Software Engineering Intern

- · Added a new type of note to Keep (Android's first party reminders app) for Android Wear watches
- · New note allows users to sketch vectorized drawings on their watch and efficiently sync those notes to a phone over the bluetooth pairing

Apple Inc.

Summer 2014

Interactive Media Group

Software Engineering Intern

- · Applied machine learning and computer vision algorithms to prototype a potential feature for OS X and iOS
- · Programmed a stand-alone application and UI in Objective-C and C++ showing the accuracy and usefulness of certain computer vision algorithms in making the new feature possible
- · Presented the application to John Stauffer, Apple Vice President, to demonstrate the feature's benefits