

# ANDY QIN

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## EDUCATION

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May 2016	<b>UC BERKELEY</b> B.A. Computer Science (Machine Learning) Certificate in Human-Centered Design Coursework: Machine Learning - <i>in progress</i> (CS 189), Artificial Intelligence (CS 188), Efficient Algorithms (CS 170), Algorithms and Data Structures (CS 61B), Linear Algebra (Math 54)	<b>GPA: 3.45 / 4.00</b>	Berkeley, CA
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## EXPERIENCE

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May 2014 – Aug 2014	<b>APPLE, INC.</b> Software Engineer Intern <ul style="list-style-type: none"><li>Built a data visualization tool for gathering third-party metrics in the OS X Server application.</li><li>Learned Objective-C and Cocoa application programming best practices.</li><li>Identified and fixed several bugs that shipped in the GM.</li><li>For full story: <a href="http://www.andyq.in/#/apple">www.andyq.in/#/apple</a></li></ul>	Cupertino, CA
Jun 2013 – Jul 2014	<b>CODEPREP.ORG</b> CEO, Co-Founder <ul style="list-style-type: none"><li>CodePrep is a school aimed to teach middle school and high school students the fundamentals of computer science and practical web development in a beginner-friendly environment.</li><li>Designed and built the website at <a href="http://www.codeprep.org">www.codeprep.org</a> using Flask, HTML, CSS, and JavaScript.</li><li>For full story: <a href="http://www.andyq.in/#/codeprep">www.andyq.in/#/codeprep</a></li></ul>	Los Angeles, CA
Dec 2013 – May 2014	<b>CENTER FOR ENTREPRENEURSHIP &amp; TECHNOLOGY</b> Front End Engineer Intern <ul style="list-style-type: none"><li>Maintained the Virtual CET platform, a “mini-Linkedin” for Berkeley student entrepreneurs and faculty.</li><li>Wrote the “Company Profile” feature, enabling users to beautifully display their companies and funding needs.</li><li>Used HTML, CSS, JavaScript, and Django.</li></ul>	Berkeley, CA

## LEADERSHIP

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Nov 2013 – Present	<b>CS198: WEB DESIGN DECAL (CLASS)</b> Instructor <ul style="list-style-type: none"><li>The Web Design DeCal is a student-taught class in web design, and teaches students of all backgrounds how to create beautiful webpages using HTML, CSS, and JavaScript. (<a href="http://www.wdd.io">www.wdd.io</a>)</li><li>Responsibilities include selecting 100 students from 900+ applicants, delivering lectures, and grading assignments.</li><li>Spearheaded live webcasting of all of our lecture content on YouTube, with the vision that anyone with an Internet connection can attend class. (<a href="http://live.wdd.io">live.wdd.io</a>)</li><li>For full story: <a href="http://www.andyq.in/#/wdd">www.andyq.in/#/wdd</a></li></ul>	Berkeley, CA
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## PROJECTS

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- MNIST DIGIT CLASSIFIER:** Implemented a machine learning model based on k-nearest neighbors in Python to classify handwritten digits from the MNIST dataset.
- MAPREDUCING FIFTEEN PUZZLE:** Used the Spark API to strongly solve the generalized Fifteen puzzle. To keep running times low, utilized lazy evaluation and partitioning data to reducing locally to save time.
- DNA RECOMBINATION ALGORITHM:** Wrote a Python program that takes overlapping substrings of a DNA strand and recombines them to form the original DNA superstring.
- JUMPING CUBES:** Wrote game logic in Java for a CLI board game and an AI player that can find forced wins 4 moves ahead.
- PERSONAL WEBSITE:** A mobile-responsive, single page application built with AngularJS. [www.andyq.in](http://www.andyq.in)

## SKILLS AND INTERESTS

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- TECHNICAL SKILLS:** Python, Java, Objective-C, D3.js, Web Development (HTML, CSS, jQuery, AngularJS)
- INTERESTS:** Virtual Reality, Science Fiction, Pedagogy, Adventures, Running, Basketball, Ukelele