

## EDUCATION

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**Massachusetts Institute of Technology**

Cambridge, MA

*Intended Bachelor of Science in the Department of Electrical Engineering and Computer Science – 4.6/5.0 GPA**Class of 2019*

Relevant Coursework – Algorithms I, Discrete Mathematics, Computation Structures

*Spring: Computer System Engineering, Machine Learning, Systems Security***Santa Monica High School**

Santa Monica, CA

*Valedictorian – 4.5/4.0 Weighted/Unweighted GPA, ACT: 34 – M: 35, E: 36, CR: 32, S: 32**Class of 2015*

Relevant Coursework – Multivariable Calculus, Linear Algebra

## EXPERIENCE

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**Nano Terra, Inc.**

Cambridge, MA

*Software Engineer, R&D – Intern**Summer 2016*

Developing graphical user interface for continuous live data collection by a network of integrated sensors.

Coordinating with electrical engineers to design new sensor circuitry and construct new prototype iterations.

Designing a cohesive data structure to efficiently categorize and perform live analysis for statistical purposes.

**Computer Science and Artificial Intelligence Lab**

Cambridge, MA

*Project Arco – Researcher**Winter 2015 – June 2016*

Building a web crawler to obtain biological models with their respective metadata for analysis.

Implementing a cross-compiler to convert octave files to a unique dynamic problem solving language.

Analyzing differential equation theory in order to more efficiently execute system equation solver.

**Legacy Effects, LLC**

San Fernando, CA

*Three Dimensional Computer Modeling – Intern**Summer 2015*

Utilizing a handheld scanner and software to create computerized scans of model objects.

Stitching various scans with Artec Studio to generate cohesive models for artistic manipulation.

**Hour of Code**

Santa Monica, CA

*Instructor at John Adams Middle School – Volunteer**Spring 2014*

Leading weeklong classes of seventh grade students in instruction of key coding concepts.

Troubleshooting student projects with interactive examples to help students gain coding intuition.

## LEADERSHIP AND ACTIVITIES

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**Phi Beta Epsilon Fraternity**

Cambridge, MA

*Network Administrator**Spring 2016 – Fall 2016*

Maintaining and updating the fraternity website, implementing new features to enhance user experience.

Communicating with MIT administration to effectively resolve network issues.

**Vacation Bible School**

Santa Monica, CA

*Physical Science Teacher – Volunteer**Summer 2011 – Summer 2015*

Planning engaging lessons, demonstrations, and experiments that promote scientific understanding.

Inspiring and motivating elementary students to pursue careers in STEM fields.

**Santa Monica Science Outreach**

Santa Monica, CA

*President of John Adams Middle School Division**Fall 2013 – Spring 2015*

Establishing a volunteer organization that allows high school students to teach middle school students.

Collaborating with teachers to conduct seminars on the topics of physics, chemistry, and biology.

## SKILLS

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Python • HTML/CSS • C/ C++ • CAD Modeling (AutoCAD) • Rapid Prototyping  
Poetry • Hiking • Binge-watching critically acclaimed television shows