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EDUCATION

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**Massachusetts Institute of Technology***Intended Bachelor of Science in the Department of Electrical Engineering and Computer Science*

Cambridge, MA

*Class of 2019*

Relevant Coursework – Differential Equations, Algorithms I, Programming I

*Fall:* Computation Structures, Artificial Intelligence, Math for Computer Science**Santa Monica High School***Valedictorian – 4.5/4.0 Weighted/Unweighted GPA, ACT: 34 – M: 35, E: 36, CR: 32, S: 32*

Santa Monica, CA

*Class of 2015*

Relevant Coursework – Multivariable Calculus, Linear Algebra

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EXPERIENCE

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**Nano Terra, Inc.***Software Engineer, R&D – Intern*

Cambridge, MA

*Summer 2016 - Current*

Developing graphical user interface for data collection by gas sensors.

Coordinating with electrical engineers to design new sensor prototype iterations.

Designing a data structure to efficiently update maximums among all channels over every time-step.

**Computer Science and Artificial Intelligence Lab***Project Arco – Researcher*

Cambridge, MA

*Winter 2015 – June 2016*

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

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

**Legacy Effects, LLC***Three Dimensional Computer Modeling – Intern*

San Fernando, CA

*Summer 2015*

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

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

**Hour of Code***Instructor at John Adams Middle School – Volunteer*

Santa Monica, CA

*Spring 2014*

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

Troubleshooting student projects with interactive examples.

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LEADERSHIP AND ACTIVITIES

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**Phi Beta Epsilon***Network Administrator*

Santa Monica, CA

*Spring 2016 – Current*

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***Physical Science Teacher – Volunteer*

Santa Monica, CA

*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***President of John Adams Middle School Division*

Santa Monica, CA

*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.

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SKILLS

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