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EDUCATION

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**Massachusetts Institute of Technology**

Cambridge, MA

*Intended Bachelor of Science in the Department of Electrical Engineering and Computer Science – 4.5/5.0 GPA**Class of 2019*

Relevant Coursework – Algorithms I, Discrete Mathematics, Computation Structures

*Spring: Computer System Security and Engineering, Machine Learning, Software Construction***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

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EXPERIENCE

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**NASA Jet Propulsion Laboratory**

Pasadena, CA

*Software Engineer, Computer Vision – Intern**Summer 2017*

Optimized image alignment process for virtual construction of the Martian landscape, using .NET framework.

Implemented PCA-SIFT to make feature matching more robust against various distortions between images.

Enacting Graph Transformation Matching (GTM) to enhance efficiency in filtering false-positive matches.

**GrabCAD**

Somerville, MA

*Software Engineer – Intern**Winter 2016 - 2017*

Effected communication protocol with printer drivers to collect job images and create a stop-motion video.

Created a computer vision model using various techniques (SURF, KAZE, BoF) to detect printer failures.

**Nano Terra, Inc.**

Cambridge, MA

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

Developed graphical user interface for continuous live data collection from a network of integrated sensors.

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

Designed 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 – Spring 2016*

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

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

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LEADERSHIP AND ACTIVITIES

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**Camp Kesem**

Cambridge, MA

*Teen Counselor – Volunteer**Fall 2016 – Current*

Planned engaging lessons, demonstrations, and experiments that promoted scientific understanding.

Inspired and motivated elementary students to pursue careers in STEM fields.

**MIT Men's Varsity Baseball**

Cambridge, MA

*Pitcher**Fall 2015 – Current*

Contributed to the team's winning effort in the regular season NEWMAC title in the Spring of 2016.

Providing mentorship to underclassmen on time management, work ethic, and general life skills.

**Phi Beta Epsilon Fraternity**

Cambridge, MA

*Network Administrator**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.

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SKILLS

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Python • Java • C/ C++/C# • HTML/CSS • .NET Framework • CAD Modeling (AutoCAD)  
Poetry • Hiking • Binge-watching critically acclaimed television shows