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## EDUCATION

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**Massachusetts Institute of Technology (MIT)***Intended Bachelor of Science in the Department of Electrical Engineering and Computer Science – 4.5/5.0 GPA*

Cambridge, MA

*Class of 2019*

Relevant Coursework – Inference and Information Theory, Machine Learning, Software Construction  
OS Engineering, Mathematical Programming, Machine Vision

**Santa Monica High School***Valedictorian – 4.5/4.0 Weighted/Unweighted GPA, ACT: 34*

Santa Monica, CA

*Class of 2015*

Relevant Coursework – Multivariable Calculus, Linear Algebra

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## EXPERIENCE

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**Capital One**

New York, NY

*Data Engineer – Intern**Summer 2018*

Collaborated with product management teams and developers company-wide to identify and solve a problem in order to better facilitate the integration and adoption of a real-time data pipeline.  
Wrote intuitive interface for Angular developers, currently being approved to go into production.

**IBM**

Cambridge, MA

*Software Engineer, Computer Vision – Intern**Winter 2017-2018*

Enriched dataset for automated sports commentary ML model by tracking player location on and off screen.  
Developed technique for labelling of players in 3D space using identification, pattern matching, and homography.

**Computer Science and Artificial Intelligence Lab**

Cambridge, MA

*Software Engineer, Autonomous Driving – Researcher**Summer 2017 – 2018*

Constructed a pipeline to infer and draw driven paths given image and LIDAR data from the KITTI dataset.  
Architected a model capable of estimating epistemic and aleatoric uncertainty of a proposed path in real-time.

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

**GrabCAD**

Somerville, MA

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

Effectuated 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.

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## LEADERSHIP AND ACTIVITIES

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**Camp Kesem**

Cambridge, MA

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

Serve as a mentor for children affected by their parent's cancer during a one week, sleep-away summer camp.

**MIT Men's Varsity Baseball**

Cambridge, MA

*Pitcher**Fall 2015 – Current*

Provided 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/JS/TS • C/ C++/C# • HTML/CSS • .NET Framework • CAD Modeling (AutoCAD) • Rapid Prototyping