

## EDUCATION

<b>Massachusetts Institute of Technology</b> Masters of Engineering in Computer Science & Engineering Distributed Systems, Computer & Network Security, Computer Vision	<b>Cambridge, MA</b> June 2014 GPA: 5.0 of 5.0
<b>Massachusetts Institute of Technology</b> Bachelors of Science in Physics, Computer Science & Engineering Database Systems, Computer Security, User Interface, Computational Photography, Computer Graphics Algorithms I & II, Computer Systems, Artificial Intelligence, Web Programming, Software Construction Linear Algebra, Discrete Math, Probability & Random Variables, Differential Equations, Calculus I & II	<b>Cambridge, MA</b> June 2013 GPA: 4.7 of 5.0

## EXPERIENCE

<b>Nara Logics</b> <i>Machine Learning Engineer</i> Explored models for movie similarity and recommendations of 23M users with approx. 2B total views, finalizing a production model which achieved ~40% recall@50 for recommendations Created tf-idf models for document similarity and 1D convolutional models for URL multiclass classification, both used for recommending similar content articles to users Developed framework for reducing the number of models parameters prior to deployments	<b>Cambridge, MA</b> Feb 2017 – Present
<b>Illumio</b> <i>Software Engineer</i> Restructure of application for full operation across the WAN, including distributed computations and cache invalidations Design and implementation of RESTful API's for various components of security policy Infrastructure for dynamic configuration of services and automatic failure detection Architecture and implementation of telemetry server for notification of downed nodes. Design and setup of pipeline for aggregation of flow logs from all nodes.	<b>Sunnyvale, CA</b> Sept 2014 – Jan. 2017
<b>Microsoft</b> <i>Intern, Microsoft Business Solutions</i> Worked closely with various teams to implement and test a new LINQ provider which could access data for the Microsoft Dynamics platform. Tests on the data provider showed 70 to 80% improvement in performance times for large datasets	<b>Bellevue, WA</b> June – Aug 2013
<b>MIT Computer Science &amp; Artificial Intelligence Lab (CSAIL)</b> <i>Advanced Networks Architecture Group</i> Collaboration with the Federal Communications Commission (FCC) to perform numerical analysis on large datasets of measurements to establish reliability, integrity, and effects of buffer bloat among different ISPs	<b>Cambridge, MA</b> Oct 2011 – May 2012

## LEADERSHIP

<b>Camp Kesem MIT</b> <i>Fundraising Coordinator, Public Relations Coordinator, Program Counselor</i> Raised over \$70,000 for children of cancer patients to attend camp freely with fellow coordinators Led a team of 8 counselors to engage campers to have fun and participate, while managing behavioral issues and maintaining safety	<b>Cambridge, MA</b> Sept 2011 – May 2013
<b>Zeta Beta Tau Fraternity, MIT</b> <i>Philanthropy Chair</i> Organized a fundraiser to increase awareness of our organization, and raised over \$2,000 for Boston Children's Hospital	<b>Cambridge, MA</b> Jan – May 2012

## ACHIEVEMENTS

Frank Lee Galeener Scholarship (2010 – 2013)  
Eugene and Margaret McDermott Scholarship (2009 – 2013)  
David A. Chanen Writing Award for technical writing (2012)

## SKILLS

Language: Python, Ruby, SQL, Golang, Java, Bash, Git, JavaScript, MATLAB, LaTeX  
Tools: Linux/UNIX, Django, Django Rest Framework (DRF), Docker, Docker Swarm, Rails, NumPy/SciPy, TensorFlow, Keras  
Systems: PostgreSQL, Redis, Memcached, Redis, MySQL, Nginx, Phusion Passenger, Thin, Fluentd, Chef, AWS, GCP