

# Eric Wadkins

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## Education

(<http://ericwadkins.com/about>)

### Massachusetts Institute of Technology (MIT):

Cambridge, MA

- **Master of Engineering (M.Eng.) in Computer Science/Artificial Intelligence** – GPA: 5.0 June 2018 – June 2019
- **Bachelor of Science (B.S.) in Computer Science and Engineering** – GPA: 4.6 (Major: 4.8) Aug. 2014 – June 2018
- Certificate of Advanced Undergraduate Research in Artificial Intelligence/Machine Learning May 2018


## Skills


(<http://ericwadkins.com/skills>)


- Programming Languages:** Python, Java, JavaScript, Node.js, C++, HTML/XML, CSS, MongoDB, Arduino, GLSL, ...
- Software Engineering:** Designing, implementing, and testing general applications, full-stack applications, and tools and libraries across various disciplines.
- AI Research and Design:** Researching and designing artificial intelligence systems using machine learning models, such as neural networks, as well as probabilistic models and classic AI approaches.
- Applied ML:** Machine learning and its applications, including prediction, machine translation, computer vision, and natural language/speech processing models, using libraries such as Tensorflow, Keras, Torch, and Scikit-Learn.


## Experience


(<http://ericwadkins.com/timeline>)


 **Google** **Mountain View, CA**  
*Software Engineer* Aug. 2019 – Present  
I currently work as a Software Engineer at Google Headquarters in Mountain View, California.


 **MIT Media Lab – Fluid Interfaces Group** **Cambridge, MA**  
*Machine Learning Lead, AlterEgo Project* June 2018 – June 2019  
AlterEgo, which I demoed at TED 2019, is a wearable device that aims to augment humans with the information and computational power of a computing device in a natural way. My research focuses on creating a continuous “silent speech” recognition system that allows humans to converse covertly – without any speech or movement, instead with electric signals from the brain produced during subvocalization – with machines, AI assistants, and other people.  
Media Lab Profile: <http://media.mit.edu/people/ewadkins> Thesis: <http://ericwadkins.com/thesis>

 **NASA – National Aeronautics and Space Administration** **Washington, D.C. Area**  
*Machine Learning Intern @ Goddard Space Flight Center* Jan. – Feb. 2018  
I interned with NASA at the Goddard Space Flight Center, where I used machine learning to apply satellite data to applications of aerosol science. My project focused on using the MODIS Terra and Aqua satellites’ global monitoring capabilities and the GEOS-5 forecasting model for the prediction of unknown atmospheric features around the world.

 **Google** **Los Angeles, CA**  
*Software Engineering Intern* June – Aug. 2017  
As an intern at Google’s Venice, Los Angeles office, my work included the design, implementation, testing, and concurrent optimization of an intelligent automated tool for YouTube’s internal infrastructure.

 **Research Laboratory of Electronics – Quantum Photonics Laboratory** **Cambridge, MA**  
*MITRE Undergraduate Research and Innovation Scholar (3 semesters)* Feb. 2017 – May 2018  
I led a year-long research project, sponsored by MITRE, that aimed to improve instrument localization and autonomous navigation in the lab. Prior work includes developing machine learning- and computer vision-enabled algorithms to automate processes in the lab, such as detection and examination of data near nitrogen-vacancy centers in diamond.

 **Computer Science and Artificial Intelligence Laboratory (CSAIL)** **Cambridge, MA**  
*Undergraduate Researcher* Sept. – Dec. 2016  
My work for the InfoLab Group focused on a video action recognition system capable of recognizing scenes based on the physical properties of the objects within them, providing a method of querying these scenes using natural language.

 **Diameter Health** **Newton, MA**  
*Software Engineering Intern (2+ years: summers, winters, semester work)* June 2015 – Feb. 2017  
At Diameter Health, I designed and developed full-stack applications using proprietary algorithms to analyze and reveal insights in healthcare data. Prominent projects include an advanced free-text medication signature parser using NLP techniques, and a predictive tool, funded by the NIH, to assess the risk of Chronic Kidney Disease.

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➔ *To learn more about me and some of my projects/papers/master's thesis, please visit: <http://ericwadkins.com>*