

Eric Wadkins

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Education	Massachusetts Institute of Technology (MIT) – GPA: 4.6 Candidate for Bachelor of Science in Computer Science and Engineering	Cambridge, MA June 2018
Skills	Programming: Java, C++, JavaScript, Node.js, Python HTML, CSS, MATLAB, Arduino, Android, GLSL Libraries/Other: TensorFlow, OpenCV, OpenGL, MongoDB, ANTLR, jQuery, Durandal, Bootstrap, REST, SOAP, XML, Express, Linux, Git, Eclipse <ul style="list-style-type: none">• Researching, designing, and experimenting with neural network models and AI systems.• Designing, implementing, and testing general applications, web applications, and libraries, as well as conducting the research required to do so.	
Experience	Google <i>Software Engineering Intern</i> As an intern at Google's Venice office, my work included the design and development of an automated tool for YouTube's internal infrastructure.	Los Angeles, CA Summer 2017
	Quantum Photonics Lab, Research Laboratory of Electronics (RLE) <i>Undergraduate Researcher</i> My research for the Quantum Photonics Laboratory includes developing machine learning and computer vision-enabled algorithms to automate processes in the lab, such as detection and examination of auxiliary information near nitrogen-vacancy centers in diamond.	Cambridge, MA Feb. 2017 - Present
	Computer Science and Artificial Intelligence Laboratory (CSAIL) <i>Undergraduate Researcher</i> The InfoLab Group conducts research on AI, computer vision, natural language processing, and multimedia information access. My research included a system to determine homographic scenes based on physical properties of objects, and the ability to query these scenes using natural language.	Cambridge, MA Sept. - Dec. 2016
	Diameter Health <i>Software Engineering Intern</i> Designed and developed full-stack applications using proprietary algorithms to analyze and reveal insights in data useful for healthcare organizations and clinicians. I was heavily involved in the design, implementation, and testing of software, as well as the tailoring of applications to individual clients. <ul style="list-style-type: none">• Designed, implemented, and tested an advanced free-text medication sig parser which uses natural language processing techniques such as tokenization and POS tagging.• Developed a full-stack application for Partners Healthcare as part of a research study, funded by the National Institutes of Health, to determine whether automated predictive tools improve a clinician's ability to assess the risk of Chronic Kidney Disease in patients with early kidney disease.• Created many other tools and applications to analyze healthcare organizations and their data, as well as automate services for clinicians and hospital administrators.	Newton, MA Jun. 2015 – Feb. 2017
Papers	Computer Vision Tools for Location Nitrogen-Vacancy Centers Eric Wadkins, Michael Walsh, Dirk Englund – Short link: http://ericwadkins.com/p/1	
Projects	Request, Java Library – Used for sending HTTP/HTTPS requests with data management functions OpenGL Game Engine, C++/OpenGL Project – A custom OpenGL game engine created in C++. Ray Casting Simulation, C++/OpenCV Project – An AI capable of ray casting, spatial mapping, Bayesian filtering, and pathfinding. Compiler, Java Project – A compiler/transpiler for my own C-based scripting language. To learn more about me, my papers, and my other projects, visit: http://ericwadkins.com	
Activities	HackMIT, MIT Battlecode Competition, MIT First Generation Program	