

Joel Gustafson

218.491.3039 | joelg@mit.edu | joelg.org

EDUCATION **Massachusetts Institute of Technology** **2014–18**

Candidate for Bachelor of Science in Computer Science and Engineering

Class of 2018 | 4.4 cumulative GPA | 5.0 major GPA

Current coursework includes Algorithms, Computation Structures, Artificial Intelligence, and Discrete Mathematics

EXPERIENCE **Undergraduate Research – MIT Media Lab** **2015–**

Research position in the Viral Communications group developing Super Glue, a modular universal media analysis framework

Worked independently on rapid iteration of web applications for video processing, entity extraction, audio transcription, and data visualization

Technology Assistant – Hermantown High School **2012–14**

Proposed technology reform to replace computer labs with Chromebooks and integrate Google Classroom and Drive as primary learning platforms

Pilot program tested in spring 2015 to unanimously positive feedback, over 400 Chromebooks now in daily use across district

SKILLS	Languages	Software	Interests	Heroes	Fun
	Python	React, Polymer	Strong AI	Alan Kay	Tennis
	JavaScript	D3, Three.js	UI, HCI	Ted Nelson	Debate
	Java	Parse, Firebase	NLP	Doug Engelbart	Card games
	Scheme, CL	Android Studio	Social Physics	Bret Victor	Magic

PROJECTS

GRASP, a 3D graphical IDE and dataflow visualizer for Lisp code

Visual History, a chrome extension that delinearizes the browser's back/forward stack and visualizes walks on the internet graph

Magic Deck, an NFC-tagged deck of playing cards and companion Android app for technology-enhanced magic tricks

Numerous collaborations with researchers at the University of California, Santa Barbara, including using Wikipedia page view and edit statistics to predict outcomes of political elections with higher accuracy than traditional polls, using Twitter to analyze reciprocity of favors on social media, and using natural language processing to quantify sensationalism in news headlines