

# Joel Gustafson

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**MOTIVATION** I want to make computing universally accessible as a medium and an art. I believe in direct manipulation of data, augmenting human intellect, and dynamic, interactive documents, unlike this one.

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

Candidate for Bachelor of Science in Computer Science and Engineering, and maybe also a math degree, but we'll see how that goes

Class of 2018 | 4.5 cumulative GPA | 4.6 department GPA

Coursework in algorithms, algebra, complexity, and symbolic programming; graduate seminars at the MIT Media Lab in AI, HCI, and magic

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**EXPERIENCE** **MIT Media Lab** **2015–**

Designer, developer, and architect on multiple projects in the Viral Communications Group since Spring 2015

Super Glue (2015): wrote metadata extraction modules and designed a visualization and exploration dashboard for a media analysis pipeline

PubPub (2016): designed and implemented a novel, composable idea-oriented network architecture for an open academic publishing platform

**MIT Computer Science and Artificial Intelligence Lab** **2016–**

Worked with Professors Gerry Sussman and Jack Wisdom to build a Scheme IDE in the browser for a computational physics class with a powerful interactive visualization framework

Joined the Software Design Group in Fall 2016 to work on an object-oriented spreadsheet interface and a visual formula composition tool

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<b>SKILLS</b>	<b>Languages</b>	<b>Software</b>	<b>Interests</b>	<b>Heroes</b>	<b>Fun</b>
	JavaScript	React, Polymer	AI, NLP	Alan Kay	Tennis
	Scheme	D3, Three.js	UI, HCI	Ted Nelson	Debate
	Python	Node, Webpack	VR, AR	Doug Engelbart	Card games
	Java	Emacs, Unix, Git	Acronyms	Bret Victor	Magic

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**PROJECTS** *GRASP*: a 3D graphical dataflow visualization for Lisp code

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

Numerous collaborations with communications researchers at UC Santa Barbara:

- Predicted outcomes of political elections with higher accuracy than traditional polls using Wikipedia page view and edit statistics
- Quantified sensationalism in news headlines with natural language processing