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.

EDUCATION

Massachusetts Institute of Technology   2014–

Candidate for Bachelor of Science in Computer Science and Engineering

Class of 2018 | 4.8 cumulative GPA | 4.8 major GPA

Coursework in algorithms, artificial intelligence, complexity, and computer and language architecture. Numerous graduate seminars at the MIT Media Lab.

EXPERIENCE

Undergraduate Research – MIT Media Lab   2015-

Designer, backend, and frontend developer across multiple projects

Designed and implemented a modular plugin system to let researchers embed interactive data visualizations inside publications

Designed and developed a media database dashboard with dynamic visualizations, search, query, and filter tools, and a reactive JSON object explorer

Nominated for Media Lab's first ever "License to Hack" blockchain certificate

SKILLS

Languages	Software	Interests	Heroes	Fun
JavaScript	React, Flux	AI, NLP	Alan Kay	Tennis
Scheme	D3, Three.js	UI, HCI	Ted Nelson	Debate
Python	Node, Webpack	VR, AR	Doug Engelbart	Card games
Java	Android Studio	Acronyms	Bret Victor	Magic

PROJECTS

nDimensional, an open-source software studio for prototyping radical UI concepts

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

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

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
- Analyzed reciprocity of favors on Twitter ('quid pro quo favorites')
- Quantified sensationalism in news headlines with natural language processing