

# Henry J Steinitz

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## Skills

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JavaScript	Haskell
React.js	Python
Redux	Java
Ruby	Swift
Rails	Xcode
SQL	MatLab
Theano	Polymer
TensorFlow	

## Coursework

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Complexity  
Computability  
Algorithms  
Logic  
Machine Learning  
Systems  
Linear Algebra  
Statistics  
Probability  
Calculus  
Abstract Algebra  
Manifolds  
Neuroscience

## Projects

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### Oceanplay

Minimalist, single-page music streaming and sharing application. Built using React, Redux, and Rails.

- HTML5 audio element is tied to the global state which allows for modular controls and continuous playback across application pages.
- User streams are built using custom SQL queries.

### Neura

Multi-layer perceptron visualizer.

- Features customizable network architectures and customizable, randomly generated datasets.
- Visualizes layerwise activation and weight / bias strength.

### Reset.js

DOM manipulation library with memory.

- Keeps track of each element's operation history and provides undo and redo methods.

## Education

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### University of Chicago - B.S. in Mathematics

September 2011 - June 2015

- Graduated with a 3.72 major GPA and received departmental honors
- Conducted independent research and wrote a survey proving that two different definitions of algorithmic randomness are equivalent.

### App Academy

July 2016 - November 2016

- 10,000 hour intensive web development program with a 3% acceptance rate.

## Experience

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### Big Apple Tutoring - Private Tutor

September 2015 - Present

- Taught math, physics, and computer science to advanced high school students.

### Oxfam - Fundraiser

July 2016 - November 2016

- Canvassed in NYC to raise money for Syrian refugees.