

## Eric Waldman

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### Programming Languages & Technologies

**Languages:** JavaScript, TypeScript, Python, PHP, SQL

**Operating Systems:** Linux, Windows

**Databases:** MySQL, PostgreSQL, SQLite, Redis

**Frontend Web Frameworks:** React, Angular, Mithril, jQuery

**Backend Web Frameworks:** Express, Django, Flask

### Work Experience

**Waldman & Company**, Montréal, Canada

**Owner & Lead Developer**, November 2014 - Present

#### **Projects:**

- **StrongProject**, <https://strongproject.com>, May 2019 - Present  
*High-end modern office furniture retailer based out of Los Angeles, California*
  - Improved site performance as measured by the site's Google PageSpeed Insights score, by refactoring frontend code following JavaScript and React best practices, resulting in their PageSpeed Insights score improving from ~20% to ~90% throughout the site.
  - Optimized the use of Docker in their deployment system easing the process of releasing new code to production and increasing site reliability from regular weekly outages to the current rare downtime.
- **Worldchat**, <https://worldchat.live>, October 2019 - Present  
*Educational video-conferencing software for connecting students across the world to practice new languages with each other. Project run by Prof. Lafortune at the Cégep de la Gaspésie et des Îles and funded by Federal and Provincial grants.*
  - Created a web application connecting students from across the world for video conferencing.
  - Implemented a WebRTC (Real Time Communication protocol) video chat system on top of the Janus WebRTC Framework allowing the service to run at a negligible cost to the operator.
- **OCLaRE**, <https://oclare.org>, November 2017 - Present  
*Educational software for aiding students to write higher quality physics and chemistry lab reports. Project run by Prof. Turkewitsch at the Cégep de la Gaspésie et des Îles and funded by Federal and Provincial government grants.*
  - Lead team of 5 developers to build a web application allowing for data entry, analysis, and formatting of lab reports according to academic journal standards via the student interface. Includes teacher interface for grading, feedback, and lab design.
  - Software successfully facilitated the sharing of lab designs between teachers as well as streamlined the lab report process for students.
- **Intlekt**, <https://dev.intlekt.io>, March 2017 - July 2019  
*Web application for exploring semantic relationships between words and phrases. Built for Prof. Pierre Levy, the Research Chair on Collective Intelligence at the University of Ottawa.*
  - Facilitated the creation of an interface for tagging data with semantic word graphs which allow for the quantification of the relationships between different data.
  - Expanded the original, simpler interface to be able to work effectively with graphs of word combinations and phrases, requiring the use of more effective frontend patterns, and more complex user interactions.

- Taught React development best practices to the client's team of 2 backend developers, providing them with the knowledge to extend their frontend code without relying on external help.

**Learning Bird**, Montréal, Canada

**Full Stack Developer**, March 2014 - July 2015

- Lead the initiative to remove unused CSS from codebase, ultimately reducing the amount of CSS in the application by 80%.
- Refactored legacy modules making them available for reuse throughout the project, decreasing repetition in the codebase and simplifying the overall architecture.

**Novation Security**, Montréal, Canada

**Full Stack Developer Intern.**, August 2012 - February 2014

- Designed and programmed an updated interface for their homegrown CRM software.
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### **Leadership & Community Involvement**

**Lectured McGill Engineering Students**, November 2016 - November 2017

- Lead and organized workshops for the McGill Engine Centre (Faculty of Engineering) introducing Engineering students to web development in order to pursue their goals of entrepreneurship and student innovation.
  - Students were provided the source code to a working web application, and taught the basics of frontend and backend development using live coding examples
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### **Education**

**McGill University**, Montréal, Canada

**Bachelor of Electrical Engineering (Honours)**, Minor in Finance

**GPA: 3.6/4**, September 2008 - December 2012

- **Coursework:** Artificial Intelligence, Probability & Random Signals, Signals & Systems (I & II), Numerical Methods, Computer Engineering (I & II), Electronic Circuits, Digital Circuits
- **Research:** Evaluated the applicability of grating patterns for waveguides in the Photonic Circuitry lab of Prof. Andrew Kirk for the Summer Undergraduate Research in Engineering (SURE) program