

Paul Oliva

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PROJECTS

CloudSounds (Rails, React/Redux) | [live](#) | [github](#)

Single-page full-stack music app w/ React frontend, Rails/Postgresql backend

- Utilizes geolocation and third-party weather API to retrieve current weather information and serve songs matching the mood of the day's weather.
- Custom Audio.js fork allows for React integration, adds increased functionality such as ability to skip forward/back in playlist and adjust/mute audio volume from within player controls.
- Utilizes WaveSurfer.js library's off-label backend methods to store waveform visualization data in database for optimized rendering.

Pol.js (JavaScript, HTML5) | [live](#) | [github](#)

Open source drop-in JavaScript library for rendering political poll data to HTML

- Retrieves RealClearPolitics polling data by making AJAX requests with JSONP callbacks to provide a synthetic API.
- Provides public methods to cleanly render data to HTML webpage as text or HTML5 canvas chart for maximal ease of use.

Alaska Politician Rater (Ruby on Rails) | [live](#) | [github](#)

Just-for-fun Ruby on Rails web app that allows Alaskans to score local politicians head to head in a variety of categories

- Authenticates with OAuth, requiring Facebook login to cut down on multiple accounts.
- Scoring algorithm records user ratings and updates scores in real time.
- Over 150 registered users and 7,000 ratings recorded in first month after release.

SKILLS

Ruby	Rails	SQL	HTML5	CSS
JavaScript	jQuery	React	Redux	Git
Java	C++	QT	Linux	Photoshop

EXPERIENCE

Java/C++ Tutor – University of Alaska-Anchorage - **2015-2016**

- Collaborated with other top students to develop and implement a supplemental curriculum for over 100 students enrolled in Programming I and Programming II courses. (Java, C++)

Independent Web Developer - 2014-2016

- Technology consulting and web development for successful political campaigns, nonprofits, and small businesses in Anchorage, Alaska. (HTML5, CSS, PHP, JavaScript)

Engineering Intern - State of Alaska - **2015-2016**

- Supported a grants and loans program for clean water infrastructure in rural Alaska with a \$20 million annual budget.
- Spearheaded a full redesign of program webpage, incorporating user and management input to provide a streamlined user experience with positive feedback. (HTML5, CSS, JavaScript)

EDUCATION

App Academy – Web Development - **2016**

- Rigorous 1000-hour web development course with < 3% acceptance rate
- Topics include: Rails, React, TDD, scalability, algorithms, OOP, coding style, single-page apps, and web development best practices.

University of Alaska - Computer Systems Engineering - **2014-2016**

- Coursework included Java/C++ programming, data structures, algorithms, hardware concepts and assembly language, calculus, statistics, discrete math.
- GPA: 3.9

University of Kentucky - B.S., Economics - **2005-2010**