

# Raymond Wu Software Developer

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**Skills** – Python, Javascript, C++, Ruby, React, Redux, HTML, CSS, Ruby on Rails, Node.js, PostgreSQL, SQLite3, MongoDB, Mongoose, Jupyter Notebook, NumPy, Git, Dart, Webpack, jQuery, Heroku, MATLAB, COMSOL, Gnuplot, LabView, VESTA, LaTeX

## Projects

**Resound** Ruby on Rails, React, Redux, PostgreSQL [Live](#) | [Repo](#)

*Music-sharing web app where musicians can post their work and listen to other artists*

- Created a fullstack SoundCloud clone, utilizing ajax requests to allow the user to navigate the app while playing music
- Built CRUD methods for songs and comments for user accounts with Rails and created user and song pages React-Redux
- Created a responsive audio player from the ground up that plays, scrubs, and loop songs

**PinBrawl Wizard** Javascript (ES6), HTML5 [Live](#) | [Repo](#)

*Javascript video game where a plucky penguin battles hordes of enemies in a game of pinball*

- Created the frontend Javascript game using only HTML Canvas
- Coded realistic physics collisions and objects from scratch, calculating how the pinballs and enemies collide and bounce off each other
- Implemented drag-and-drop image upload feature to allow players to create their own enemies

**Dayze** MongoDB, Express, React, Node [Live](#) | [Repo](#)

*An event-tracking schedule application*

- Used the MERN stack to handle user authentication, event CRUD, and notification CRUD
- Implemented event timers that create reminders of current tasks on a different page using React-Redux and JS
- Built a future feature with Google Calendar API that syncs Dayze app with Google Calendar

## Experience

**President of RPI Chapter Society of Physics Students** 2019

- Fostered a community that offered advice and aid to physics students.
- Organized and presented 20 physics demonstrations to cultivate a love of science for children and adults at multiple outreach events in RPI and Albany, such as a gravity table, magnetic ring launcher, magnetic rail cannon, tesla coil, and wave pendulum demos.

**Summer Undergraduate Research Program, RPI Dept of Physics, nEXO** 2018

- Worked on project that determined the efficacy of a radon isotope in calibrating liquid xenon detectors in search of dark matter
- Constructed a small-scale liquid xenon detector, built a capacitive level meter for the detector chamber, and modeled heat transfer in liquefaction regions in xenon piping
- Conducted experiments to optimize the level sensor and reported findings, using regression analysis to relate the fluid height as a function of output voltage

## Education

App Academy — Rigorous coding bootcamp that teaches fullstack software development May 2021

Rensselaer Polytechnic Institute — BS Physics/Math Dual Major, GPA: 3.81 May 2019