PERSONAL INFO

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<u>github.com/nwelchr</u>

mwelch.com

in linkedin.com/in/nwelchr



I build gorgeous, responsive apps that just work.

SKILLS

Backend

Ruby on Rails PostgreSQL MongoDB Express Firebase

Frontend

JavaScript React

React Native

React VR/360

Redux

jQuery

HTML5

CSS3/SCSS

Tools

REST APIs

RSpec

Jest

Webpack

Git

JBuilder

Heroku

AWS

npm

Postman

InVision

Photoshop

EDUCATION

Web Development

App Academy, 2018

Linguistics, B.A.

University of Pennsylvania, 2016 (summa cum laude)

PROJECTS

Bop (Rails, PostgreSQL, React, Redux) | *Sole Developer* A single-page music-streaming app.

live I github

- Integrated the React Player library with Redux's store for seamless audio streaming
- Decreased database tables by 25% by using polymorphic associations and concerns
- Rendered search results based on a weighted algorithm that prioritizes search relevance

The Power of Friendship (JavaScript, HTML, CSS) | Sole Developer | live | github | A minimalist side-scrolling puzzle platformer that encourages cooperation.

- Implemented unidirectional data flow for predictable state and reliable DOM rendering
- Built physics engine to implement features such as flying, swimming, and new characters
- Parsed level tilemaps to avoid re-rendering of static elements and keep gameplay smooth

Project Phantom (React VR, npm) | Collaborator in a team of 4 | live | github | A developer's toolkit for streamlining the creation of applications in virtual reality.

- Created an npm component library that bypasses common issues of VR content rendering
- Published an npx package runner that generates a pre-configured React VR project
- Packaged a script that scrapes HTML and dynamically renders elements in a VR preview

Quidproquo (in progress) (MongoDB, Express, React Native, Node.js, Firebase) <u>github</u> A 'TaskRabbit-meets-Tinder' social meetup app centered around exchanging skills and favors. **Keywords:** Android, iOS, mobile, MERN, websockets, OAuth, location services

EXPERIENCE

Language Instructor | Self-Employed

Oct 2015 - Feb 2018

- Conducted 1000+ private ASL, English, and French lessons with a 99% approval rate
- Adapted lesson structure according to students' varied cultural and linguistic backgrounds

Technology Advisor, Webmaster | *University of Pennsylvania* Aug 2012 - Aug 2015

- Refactored and updated CSS and HTML code segments for the Penn Computing website
- Assisted staff and students in troubleshooting hardware and software, including network configuration, DHCP lease renewal, computer assembly, and antivirus security measures
- Co-managed the successful relocation of Van Pelt Library's website and reorganization of electronic catalog storage system