

# PATRICK BROWN

## Software Engineer / Developer

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**Skills:** Ruby, Ruby on Rails, RSpec, JavaScript, jQuery, React, Redux, SQL, Git, HTML5, CSS3/SASS, Python, Typescript, PostgreSQL, SQLite3, PHP, AWS, Vue

### PROJECTS:

NeverNote **Ruby on Rails, ReactJS, Redux, Javascript**

[Live](#) | [GitHub](#)

*Never lose your thoughts with rich-text-edited, autosaved notes*

- Built custom back-end API to verify user's email model and controller-level validation, which conditionally render helpful errors to guide user or dynamically reveals a hidden password field to finish login process
- Created a custom AutoSave feature on notes for dynamic, highly scalable and clean user experience using React
- Implemented original search algorithm by using tags on notes for faster note search and cleaner organization using React state to iterate over the tags

Squirtle-Aga **Javascript, CSS3**

[Live](#) | [GitHub](#)

*Classic Galaga game with Pokemon themed heroes and villains*

- Created custom collision detection for interactive and engaging game physics with every render
- Linked game difficulty with current player level algorithm by increasing speed of enemies' fire rate with a random number generator to scale to player's skill
- Used Javascript and Canvas to create a stylized, responsive CSS3 interface and design

Packing List Generator **Ruby on Rails, ReactJS, Redux, Javascript**

[Live](#) | [GitHub](#)

*Create a customized packing list so you never forget your toothbrush again*

- Generated essential packing list product based off the number of days and conditions such as a business trip or a trip to a cold place employing thunk actions to change the Redux state
- Utilized password hashing and session tokens to protect against malicious actors using bcrypt

### EXPERIENCE:

**Paid, full-time Full Stack Intern**

*Northwest Classes*

2019–Now

- Created internal tracking system for class times, topics and clients in Agile using Rails to persist the data for record keeping and communication
- Crafted custom search algorithm utilizing the store in Redux and linked payment system

**Field and Finance Director**

*Bahner for MN State House*

2017 – 2018

- Led a successful campaign, flipping a deeply entrenched seat for the first time in 36 years by increasing turnout 44% from the last midterm and candidate support by 20%
- Organized over 75 volunteers for over 100 door knock and phone bank events, coordinating with the up-ballot candidates
- Assembled a \$65,500 budget to maximize voter contact and ensure compliance with local, state and federal election law

**Due Diligence Quality Controller Investigator**

*Wells Fargo*

2017 – 2018

- Promoted to leadership position in 6 months with 6 direct reports to maintain quality expectations through weekly reviews, challenges and sit-downs to analyze 5% of cases to go over patterns
- Trained new hired investigators after maintaining the third lowest error rate while achieving twice the production as the next highest investigator on my team of 20

### EDUCATION:

**AppAcademy**

2019

1000-hour immersive full-stack web development intensive with under 3% acceptance rate

**University of California, Davis** – BA International Relations

2011– 2015

Minors– Modern European History, Political Science, Economics