

# Billy Littlefield

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[github](#) • [linkedin](#) • [portfolio](#)

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## Projects

### JogLog *(Ruby on Rails, React)*

[live](#) • [github](#)

*A community-based exercise logging service*

- Interactive calendar allows users to track workouts and summary statistics
- Dashboard includes interface to filter summary data by activity, gender, and user-group in real time by creating efficient, tailored API requests on back-end

### Dragon Pop *(JavaScript, HTML5 Canvas)*

[live](#) • [github](#)

*An arcade-style wave defense game inspired by Bubble Trouble*

- Calculates varying collision and bounce behavior according to object type
- jQuery key listeners and character sprite animations create dynamic gameplay

### Chess *(Ruby)*

[github](#)

*Two-player terminal chess*

- Board allows piece selection with arrow-key input and highlights valid moves
  - Maintains DRY code-base with 'piece-type' and 'move-style' class inheritance
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## Skills

JavaScript

React / Flux

HTML

Ruby

Rails

jQuery

AJAX

CSS

SQL

Git

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## Experience

### Intel *(Process Engineer)*

July 2013 - August 2015

- Implemented preventative and reactive maintenance plans for >100 Hitachi dry etch process chambers
- Improved and performed qualification process for 6 new chambers
- Piloted procedural update to increase total machine up-time by 40 hours / week
- Created a methodology for automated diagnostic testing to reduce test variability and decrease technician workload by 10 hours / week

### ExxonMobil *(Materials Intern)*

May 2012 - August 2012

- Conducted safety and financial risk analysis on 200 pieces of piping equipment
  - Presented 5 immediate risks to plant management that were acted upon
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## Education

### App Academy

August 2015 - November 2015

Immersive full-stack software development program with <5% acceptance rate

### Carnegie Mellon University

August 2009 - May 2013

B.S. in Materials Science & Engineering  
Double Major in Biomedical Engineering  
GPA: 3.86 / 4.00

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## Interests

Running

Hiking

Biking

Guitar

Singing

Songwriting

Board games

Video games

Reading fantasy / fiction