

# Nick Alzapiedi

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## PROJECTS

### FoodStamps (Rails, React.js)

[live](#) | [github](#)

*Social media photo sharing website based on Instagram.*

- Implements file upload using AWS cloud storage.
- Bootstraps user data on page load to avoid extra AJAX requests.
- Scopes each search to include model associations to increase accuracy.

### Chess AI (JavaScript, jQuery, CSS)

[live](#) | [github](#)

*Strategy board game played against the computer.*

- Builds a game tree of all possible moves to a specified depth.
- Prunes tree using Alpha-beta algorithm to reduce total nodes.
- Performs a recursive depth first search to find the optimal move.
- Applies minimax algorithm to predict opponent's most probable moves.

### SkiFree (JavaScript, HTML5 Canvas)

[live](#) | [github](#)

*Remake of classic Windows game from 1991.*

- Calculates object velocities using trigonometry and vector mathematics.
  - Implements game physics by adjusting velocities as a function of time.
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## SKILLS

Ruby

JavaScript

Flux

HTML/CSS

SQL

Rails

React.js

jQuery

TDD

Git

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## EXPERIENCE

### Electrical Engineer - POWER Engineers, Inc.

2013 - 2015

- Prepared hundreds of detailed design drawings and technical specifications.
  - Programmed relay devices responsible for protecting over \$100M of equipment.
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## EDUCATION

### Web Development - App Academy

2015 - 2016

- Full stack web development course, acceptance rate < 3%.
- Strong emphasis on pair programming and test driven development.

### BE Electrical Engineering - Stevens Institute of Technology

2009 - 2013

- Programmed six class projects using C, C++, Assembly and MATLAB.
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PORTFOLIO [www.nickalzapiedi.com](http://www.nickalzapiedi.com) • GITHUB [alzapiedi](https://github.com/alzapiedi)

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