

Nick Alzapiedi

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PROJECTS

FoodStamps (Rails, React.js)

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

Single-page MVC web app with RESTful API.

- Implements file upload using AWS S3 cloud storage to allow for scaling.
- Bootstraps user data on page load to improve response time.
- Loads image assets in batches to reduce data usage and page load time.

Chess AI (JavaScript, jQuery, CSS)

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

Object oriented AI that calculates the optimal move.

- 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.

SKILLS

Ruby

JavaScript

Flux

HTML5/CSS3

SQL

Rails

React.js

jQuery

TDD

Git

EXPERIENCE

Electrical Engineer - POWER Engineers, Inc.

June 2013 - Nov. 2015

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

EDUCATION

Web Development - App Academy

Nov. 2015 - Feb. 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

Aug. 2009 - May 2013

- Developed applications using C, C++, Assembly and MATLAB.

PORTFOLIO www.nickalzapiedi.com • GITHUB [alzapiedi](https://github.com/alzapiedi)

LINKEDIN <https://www.linkedin.com/in/nick-alzapiedi>