

Valery Zajkov

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PROJECTS

Kelp — Ruby on Rails, React.js

LIVE — [Github](#)

Web app inspired by Yelp with core CRUD functionality

- Optimized user experience by implementing ActiveRecord queries to filter for businesses and search for quick business lookup.
- Established user account security with BCrypt password encryption and session token generation.
- Integrated Google Maps API to display business results locations on map with info boxes.

Tetris — JavaScript

LIVE — [Github](#)

Classic block puzzle game

- Implemented HTML Canvas to display Tetris board and falling pieces.
- Initiated recursive calls for score tracking and increasing game speed with higher score.

Chess — Ruby

[Github](#)

Classic board game playable in terminal with complex move play

- Designed player class logic to allow for computer AI to filter and select legal moves.
- Optimized class structure using inheritance for extensible code.

Cool Tool — Stony Brook Department of Mechanical Engineering, Senior design team

Programming and Electronics Lead (September 2016 – May 2017)

- Successfully designed, built, and tested a solar powered cooling apparatus under budget to decrease tomato temperatures in desert climate by 50%.
 - Led team efforts in battery sizing, power control, Arduino programming, circuitry, equipment selection and testing.
 - Awarded Best Senior Design Project for humanitarian focus and overall design.
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SKILLS

Ruby on Rails, JavaScript, jQuery, Redux, React, Git, SQL, RSpec, HTML5, CSS3, MATLAB

EDUCATION

App Academy (September 2017 – November 2017)

1000 hour immersive web development course with <3 percent acceptance rate.

Stony Brook University — B.E. Mechanical Engineering (August 2013 – May 2017)

EXPERIENCE

Residential Safety Program, Stony Brook University — Supervisor November 2015 – May 2017

- Supervised, trained, and evaluated >200 student employees during night shift hours on proper emergency protocol and radio code procedures.
- Approved 50 employee timesheets biweekly for payroll totalling over \$40,000 over four months.
- Awarded Employee of the Year for top performance as supervisor.