
EDUCATION

Princeton University

2011-2015 · BSE in Civil Engineering

Curriculum Highlights:

- *Introduction to Programming in Java*
- *Algorithms and Data Structures*
- *Introduction to Programming Systems*
- *Advanced Programming Techniques*

Relevant Coursework:

- *Heap Manager Module:* Built dynamic memory management program in C with circular linked-list
- *Unix Shell:* Developed an interactive Unix shell, including DFA lexical and syntactic analysis of shell commands

Senior Thesis:

- *Understanding Community Resilience: A Human and Physical Framework*
- Awarded final grade of A+

App Academy · New York, NY

November 2015-February 2016

- Full stack web development course
- Acceptance rate < 5%

SKILLS

- | | |
|--------------|-----------------|
| • JavaScript | • React |
| • Ruby | • Ruby on Rails |
| • JQuery | • SQL |
| • Git | • HTML/CSS |
| • C | • Java |

EXPERIENCE

Leader · Overland Summers

Williamstown, MA — 2013-2015

- Led 6 bicycle trips for over 50 high school students with a co-leader, including a 3,000-mile trip from coast-to-coast in 2015
- Facilitated experiential learning as students mastered bike-maintenance and camping skills

RECENT PROJECTS

Kelp

[live site](#) · [github](#)

Business review app inspired by Yelp with a React, Javascript frontend and RESTful, Ruby on Rails backend.

- Employs Google Places API to retrieve Google's unique place-ID with a new business, allowing friendly interaction between the database and Google's API
- Renders with React's DOM and React Router to create a single page view that makes for smooth and quick navigation within the app

Tetris

[live site](#) · [github](#)

Tile matching video-game built for a web browser

- Animates falling blocks with JavaScript, React, and two HTML5 Canvas elements
- Displays custom explosion graphics with animation frames and time-interval logic

ActiveRecordLite

[github*](#)

Rebuilt basic ActiveRecord functions in Ruby

- Provides getter and setter methods for models linked to database columns
- Queries SQL database efficiently with *#all* and *#where* methods
- Associates SQL tables appropriately with *has_many* and *belongs_to* relationships



www.toddkranenburg.com*



www.github.com/toddkranenburg



www.linkedin.com/in/toddkranenburg

