TODD KRANENBURG

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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 in C

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 with an emphasis on TDD and pair programming
- Acceptance rate < 3%

SKILLS

- **JavaScript**
- **Ruby**
- **JQuery**
- **Git**
- **C**
- **React**
- **Ruby on Rails**
- **SQL**
- **HTML/CSS**
- **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 frontend and RESTful, Ruby on Rails backend.

- Employs Google Places API to retrieve unique business place-IDs, allowing friendly interaction between the database and Google's API
- Renders view layer with React 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

HyperactiveRecord

[github](#)

Rebuilt basic ActiveRecord functions in Ruby

- Provides getter, setter, and validation methods for models linked to database columns
- Defines chainable selector methods, producing highly efficient SQL queries
- Associates SQL tables appropriately with interdependent model relationships

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[www.ToddKranenburg.com](#)

[www.github.com/ToddKranenburg](#)

[www.linkedin.com/in/ToddKranenburg](#)