

# Grant Kopplin

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**SKILLS** Ruby, Rails, JavaScript, React, Redux, SQL, jQuery, HTML, CSS, Canvas

## PROJECTS

**Grumblr** | (React/Redux, Rails, Webpack, AWS, PostgreSQL, jQuery, HTML/CSS, Heroku)

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

*A full-stack clone of Tumblr for people who love to grumble*

- Designed a sliding carousel of pages on the splash page using DOM scroll/click event listeners which update the classes of HTML elements and trigger a series of animations.
- Queried joins tables for likes and follows using asynchronous AJAX requests with “data” parameters that limit the amount of data passed to the frontend.
- Improved scalability and reduced local data storage by implementing AWS S3 cloud storage.

**Maze Escape** | (JavaScript, HTML5 Canvas)

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

*A retro, turn-based maze escape game with AI enemies*

- Created 2.5D walls using Canvas’ rect and lineTo methods and implemented collision logic based on the positioning of the characters and walls.
- Implemented logic to conditionally show/hide HTML elements (such as instructions and the win screen) based on the user’s progression through the levels of the game.
- Utilized DOM keypress event listeners to re-render certain layers of the Canvas element based on user input.

## EXPERIENCE

### Research Assistant

*Guttmacher Institute*

Dec 2015 - Feb 2019

- Standardized Stata datasets for 147 countries for the latest iteration of *Adding It Up*, a heavily cited series summarizing global contraceptive use and maternal/newborn health.
- Created a system for pulling and processing data from PDFs using Tabula, which greatly improved efficiency and minimized errors compared to manual data entry.
- Prepared Stata dataset for analysis for a project comparing trends in contraceptive use and sexual activity in the U.S. and Great Britain.
- Conducted analyses including logistic regressions and Cox regressions and found support for the hypothesis that trends in teenage pregnancy were driven primarily by increases in contraceptive use.

### Research Assistant

*Institution for Social and Policy Studies*

May 2014 - May 2015

- Prepared 4-5 datasets for publication on the ISPS online data archive by implementing standardized conventions for naming/labeling variables and other best practices.
- Reviewed datasets and ran regressions and other analyses to confirm that published results were reproducible.

## EDUCATION

**App Academy** - 2019 - A highly selective, full-stack web development course

**Yale University** - BS Psychology, 2010-2015