

# Nate Donato

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## Languages and Tools

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Amazon Web Services (AWS), Babel, Bootstrap, C#, CSS3, Express, Git, Heroku, HTML5, JavaScript (JS), JSON, jQuery, Mocha, MongoDB (NoSQL), Node.js, Photoshop, PostgreSQL (SQL), Rails, React, Ruby, Sass, Visual Studio, Webpack

## Selected Project Experience

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**Instagraff**      [live demo](#) - [github](#)

*Full stack social media single page web app using Ruby on Rails / Postgres backend and React.js / Redux frontend*

- Integrated photo uploads with Amazon Web Services cloud storage system allowing for future scalability and reducing server load
- Employed React with Redux to seamlessly update single page app state, allowing for real time visual response to user actions such as liking a post or leaving a comment
- Formulated MVC framework API to fetch all relevant and associated data via database relationships and custom routes, reducing the number of necessary fetches to minimize load time
- Incorporated secure User Authentication on both frontend and backend using protected React routes and password hashing & salting via BCrypt

**KnowItAll**      [live demo](#) - [github](#)

*Scoreboard and trivia app built on the MERN stack (MongoDB, Express, React, Node.js) with an Agile dev team of four*

- Deployed live production build to Heroku including database migration and configuration variables to protect private API keys and other sensitive data
- Managed team Git workflow including branching and solving merge conflicts for efficient division of labor and integration of team feature development
- Built out Redux cycle for efficient unidirectional dataflow and consistent state shape including action creators and dispatchers, combining state slice reducers, and asynchronous Axios utility functions

**Landslide.js**      [live demo](#) - [github](#)

*Web game with a Mongoose / Express.js NoSQL high score database server, rendered by JavaScript and HTML5 Canvas*

- Designed lean MongoDB / Express.js server to store global game score leaderboards in external cloud database allowing for enhanced replay value and driving increased traffic among competitive users
- Integrated touch events using web APIs to implement customized mobile control scheme providing mobile users with smoother and more natural input
- Protected high score integrity against Cross-Site Request Forgery attacks by implementing custom authentication token logic
- Implemented custom physics algorithms calculating vectors and velocities to accurately detect and resolve collisions and provide dynamic gravity / friction

## Past Work Experience

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### Test Prep Teacher

*Study Smart Tutors*

June 2016 - February 2019

- Collaborated with a team of instructors at creating an engaging and scalable curriculum, challenging students on Algebra, Geometry & Data Analysis SAT reasoning test topics (as well as English Comprehension and Writing)
- Provided direct leadership and support to individual classes of 25 - 40 high school students

### Grocery Clerk and Stocker

*Star Grocery*

January 2015 - February 2019

- Cashiered for over 80 customers daily while providing excellent customer service and support
- Worked on a team of 5 maintaining daily inventory, intake, and product displays

## Education

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**App Academy** - Full Stack Web Development

Spring 2019 - Summer 2019

**University of California, Santa Cruz** – B.A. in English Literature

Fall 2011 - Spring 2017