

Nate Donato

natedonato.com | linkedin.com/in/natedonato | github.com/natedonato

Background

Nate is a Software Engineer and Web Developer. He has done extensive independent work in web design and engineering, currently looking to join a new team where he can contribute to an active and professional codebase.

Languages and Tools

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 Independent Project Experience

Instagraff (instagraff.natedonato.com)

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
- Built mobile responsive design using responsive CSS grid providing full functionality to users on mobile devices
- 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 (knowitall-app.herokuapp.com)

A question and answer web game implemented using the MERN stack (MongoDB, Express, React, Node.js).

- Collaborated on an Agile development team of four, including Sprints, daily Scrum meetings, and dynamic project roadmaps to deliver a finished MVP product on a tight deadline
 - Managed team Git workflow including branching and solving merge conflicts for efficient division and integration of team development
 - Deployed live production build to Heroku including database migration and configuration variables to protect private API keys and other sensitive data
- 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 (landslide.natedonato.com)

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

- Designed lean MongoDB / Express.js server to store game leaderboards in external cloud allowing for enhanced replayability and competition among 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

For more projects, source code, documentation, and live demos see natedonato.com and github.com/natedonato

Past Work Experience

Test Prep Teacher

Study Smart Tutors

June 2016 - February 2019

- Developed and facilitated specialized coursework preparing students for the SAT reasoning test
- Collaborated with a team of instructors at creating an engaging and scalable curriculum, challenging students on Algebra, Geometry & Data Analysis 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

- Managed daily operations for produce department including sanitation and seasonal stock rotation
- 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

App Academy

Full Stack Web Development

Spring 2019 - Summer 2019

University of California, Santa Cruz

BA awarded in English Literature

Fall 2011 - Spring 2017

Other Interests

I also enjoy participating in Mechanics Institute speed chess tournaments, staying fit through outdoor calisthenics, playing and improvising in musical groups (guitar), and reading a good book.

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