

# NIKOLAY SHATALOV

Software Engineer

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## Skills

JavaScript, React, Redux, HTML5, CSS3, SCSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, PostgreSQL, SQLite3, Webpack, jQuery, Git, Heroku, Amazon Web Services (AWS), D3.js

## Projects

**TreeCamp** (JavaScript, React/Redux, Ruby/Rails, HTML5, CSS3, PostgreSQL, AWS) [Live Site](#) | [Github](#)

*TreeCamp is a full-stack Hipcamp clone that allows users to discover and book unique treehouses.*

- Optimized backend routes and shape of front-end state to minimize load-time for process-heavy user experience (UX), such as user login, that heavily depends on the previously saved credentials.
- Utilized Redux single-state management to establish communication between backend and frontend environment and implement CRUD functionality.
- Implemented fully responsive modals and animations to simplify UX when navigating through the website.
- Leveraged AWS S3 for image storage imposing a file size limit and file compression to reduce the storage cost.

**90 Plus** (JavaScript, Node.js, Express.js, D3.js, HTML5, CSS3, Firebase/Firestore) [Live Site](#) | [Github](#)

*An interactive soccer live score app with dynamic data and visualizations.*

- Integrated Football-API by using promise based HTTP client Axios to receive, display and update the most recent soccer data.
- Utilizing Node.js platform on backend to securely store API keys and set asynchronous API routes.
- Implemented live updates by using local storage to temporarily save data and keep track of number of page reloads.
- Harnessed the power of serverless Cloud Firestore realtime NoSQL database by syncing user's voting data.

**Pomegranate** (JavaScript, HTML5, CSS3, MongoDB, Mongoose, Express.js, React/Redux, Node.js) [Live Site](#) | [Github](#)

*A web-app that generates unique recipes based on the ingredients from user's kitchen*

- Adopted Babel and Webpack to support seamless and uniform visual experience across web browsers.
- Headed front-end design and development by adding pleasant, minimalistic look and smooth navigation ensured by React-Router components

## Experience

New York Temperature Controls: **Application Engineer** Sep 2018 - Sep 2020

- Developed efficient mechanical and automated Building Management Systems (BMS) designs and engineering control submittals
- Entirely redesigned over 50% of existing graphical user interfaces (GUI) for BMS and HVAC systems and developed new design standards for the company.
- Created javascript code to speed-up the process of building typical GUI graphics reducing number of errors.
- Tested and modified control programs with Niagara Framework software prior to releasing.

TEC Systems: **Control Systems Engineer** Jun 2017 - Sep 2018

- Designed electrical wiring and flow diagrams on mechanical blueprints.
- Implemented and utilized AutoCad on a daily basis for high level engineering and drafting.

## Education

**App Academy** Aug 2020 - Dec 2020

Immersive software development course with focus on full stack web development.

**The City College of New York**

*Bachelor's in Mechanical Engineering*

Sep 2013 - Dec 2017