

# BRUK ARGAW

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## PORTFOLIO

**NextMoveSF** | (React/Redux, Rails 5, Ruby, & JavaScript) [Live](#) | [Github](#)

*Data visualization tool*

- Collaborated with three engineers to create a full stack application that allows the user to visualize data obtained through different api calls for the city of San Francisco.
- Utilized leaflet map and d3.js to display data in an interactive and intuitive manner that allows the user to look at the categories they desire.
- Implemented drag and drop features to enhance the user's experience.

**ForgetNot** | (React/Redux, Rails 5, Ruby, & JavaScript) [Live](#) | [Github](#)

*"To do list" app inspired by Remember the Milk*

- Created a backend API, using Ruby on Rails, that allows the user to create, edit and delete tasks; while maintaining a fast and asynchronous loading of resources for a smooth user experience.
- Developed an elegant single-page web application, by implementing modular react components, that allow the user to intuitively interact with their tasks via links and modals.
- Implemented user authentication procedures, to increase security of the user's data utilizing the BCrypt gem.

**Version-Control System** | (Java) [Github](#)

*Terminal based program inspired by Git*

- Created a version-control system that mimics some of the features of the popular version-control system Git.
- Implemented serialization of the Git state to ensure a program can be run and function seamlessly after exit and reentry using io.serialize.

## WORK EXPERIENCE

**Structural Design Consultant** Aug 2016 - Jan 2017

*Rutherford & Chekene*

- Designed and maintained Dynamo scripts, that expedited and automated a repetitive task that saved the firm more than 100 engineering hours.
- Created macros in VB with the capability to perform and format engineering calculations.
- Automated the data transfer from RAM to Etabs through Dynamo and saved more than 200 engineering hours and more than \$200,000 in cost.

**Structural Design Intern** Dec 2015 - Aug 2016

*Rutherford & Chekene*

- Delivered a contract winning optimized lateral system design, as part of the design for the new SFO terminal, which had an estimated project cost of \$500,000,000.
- Automated the creation of formatted KML over layer with embedded url and pre-populated data to enable dynamic surveying of over 2,500 buildings.

## EDUCATION

**University of California Berkeley** Fall 2015

BS in Civil and Environmental Engineering

**AppAcademy** Winter 2017

A rigorous 1000 hour web development course, with <5% acceptance rate

## SKILLS

Ruby  
Ruby on Rails  
RSpec  
JavaScript  
Java  
jQuery  
React  
Redux  
Git  
SQL  
HTML5  
CSS3  
Dynamo  
Matlab  
VB  
KML

## LANGUAGES

Amharic  
English