

## Muhammad Alam PROJECTS

### Software Developer

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### SKILLS

Ruby on Rails, Node.js,  
JavaScript/ES6, HTML5,  
CSS3, jQuery, React.js,  
Flux/Redux, D3.js, RSpec,  
SQL, Python, Git

### EDUCATION

Stony Brook U, NY

*B.S. Biological Sciences*

Class of 2012

Coursework and research  
included Bioinformatics with  
experience analyzing  
genomic data from NCBI in  
R and Biopython

App Academy, NY

Full Stack Web  
Development

Feb 2017

1000-hour programming  
bootcamp with < 3%  
acceptance rate focusing on  
OOP and full stack web  
development

### HalalHub

Full stack single-page web application inspired by Yelp which allows users to search, locate, and review Halal trucks around the NYC area

- Implemented Google Maps API to filter and search truck locations
- Built React/Redux front end architecture to minimize AJAX requests
- Applied PostgreSQL and ActiveRecord for efficient data querying
- Utilized BCrypt library for user authentication security best practices
- Constructed Ruby on Rails backend for robust API design

### SenWatch

Browser-based Javascript application using D3 and several API's which allows users to click on a rendered map of the US and get tweets and information about the senators of the clicked state

- Imported D3.js library to render and add query logic to SVG map
- Dispatched Propublica Congress API for information on senators
- Navigated Wikipedia API to query for images with JSONP for CORS
- Implemented Twitter API script for senators' latest tweets
- Integrated jQuery for AJAX requests, SVG, and DOM manipulation
- Leveraged CSS flexboxes for layouts and aesthetic user interface

### mmDollar

DOM traversal/manipulation and AJAX library written in plain JavaScript

- Handled querying, selecting and manipulating DOM elements
- Implemented simplified AJAX request format using native JS
- Integrated method to run callbacks once DOM fully loads

## EXPERIENCE

### The Princeton Review, New York, NY - Teacher/Tutor

January 2011 - October 2013

Provided Instruction and mentorship to students to raise scores on standardized exams including the SAT, ACT, GRE, SHSAT and MCAT sciences in both classroom and one-on-one settings and maintained a 4.9/5.0 for student satisfaction ratings, based on score improvements, time management and student engagement

### New York Army National Guard, NY - Healthcare Specialist

October 2013 - Present

Performed routine health checks for NYARNG members across New York State to update health records on U.S Army PHA database and perform medical procedures efficiently at scale for elements ranging in size from hundreds to thousands of soldiers per cycle. Previously provided medical support for a combat infantry unit at point of injury, in transit, and in ad-hoc medical aid stations, using MC4 systems to update patient records remotely in the field