

SALLEM AHMED

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<https://asallem94.github.io/>
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[sallem-ahmed](#)

SKILLS

LANGUAGES

JavaScript ES6,
TypeScript, Python,
Java, Ruby, SQL, CSS3,
SCSS, HTML5, Swift 4,
MATLAB®

TECHNOLOGIES

React.js, React Native,
Redux, Express, Node.js,
Spring, Maven, Rails (MVC
Frameworks), Pandas,
Webpack, AWS, jQuery,
Websockets, Redis,
PostgreSQL / SQLite,
Firebase, Git, RESTful web
service APIs, Jest, Jasmine,
Jenkins (TDD)

EDUCATION

App Academy (09/2018)

Software Engineering /
Computer Science

The City College of New York (08/2012-12/2016)

Bachelor of Engineering
Civil Engineering - **GPA: 3.7**

PUBLICATION

Effects of Overweight Vehicles on New York State DOT Infrastructure

- Programed a simulation studying the effects of overweight trucks on NYS pavements.
- The NYSDOT uses this research to make decisions on NYS pavement construction/ rehabilitation which identified \$95M per year on pavement damage incurred by overweight trucks.
- Focus on Big Data and Data Management and Data Visualization.

EMPLOYMENT

Muzsphere: FullStack Engineer for Web & Mobile

12/2018-Present

React.js, React Native, Redux, Rails, PostgreSQL

LIVE

- Building & maintaining a large-scale, high-availability web application with an active and growing user base with currently 40 active users.
- Implemented secure token authentication and Facebook authentication to be compatible with mobile and web applications.
- Built user email verification and new event notifications
- Created user marital analysis reports unique to the user's compatibility within the viewable group or event.
- Extracted event and groups by user filters according to boundary location, search query results, and by date.
- Incorporated AWS for hosting user, groups and event images.
- Incorporates pre-rendering and is SEO friendly.

Turner Construction, Field Engineer & Cost Analyst

09/2017-09/2018

Focused on Management, Leadership, Automation and Software solutions

- Managed subcontractors of 10-30 labors in renovating the Mt. Sinai pediatric center and neurology center.
- Built management tool to track laborers attendance and work.
- Developed a Risk Management Analysis tools to aid in analyzing unfortunate possibilities and proper approaches to minimize risk used utilized every month by the on average 30 employees.
- Automated financial forecasting tools for financial analytics.
- Designed a mobile application that synchronized collaboration between departments (Cost, Accounting, Insurance, Modeling and field)

NYS Department of Transportation, Data Analyst

10/2014-09/2016

Focused on Big Data, Data Structures and Scalability, Structure Analysis

- Constructed a Matlab program with GUI to evaluate the effects of overweight trucks on NYS pavements and assess the damage on the existing NYS pavement.
- Determine the most appropriate structural and material configuration to provide most economical and sustainable design for different regions depending on average daily truck traffic and weather effects.

PROJECTS

Meet-in: Meetup Inspired Web Application

LIVE | REPO

React, Redux, Rails, PostgreSQL

- Clones Meetup features (radial search; create, join and unjoin groups and events; implement group/events show page and discussion and comments page)
- Implements Action Cables for two-way messaging communication.
- Utilizes google translate plugin to allow users to interact in their native language.

IOS Event Management Application

Swift 4.1, Firebase

- Fully programmatic implemented application with UI animations.
- Functional instant text, image and video messaging implementation.

Car Flipper

React, Node.js

- Backend crawls sites such as craigslist.com (to get car listings), carcomplaints.com (for general information on vehicle), and kbb.com (for vehicle trade-in-value)
- complies important information on used car sites and typical helpful information on vehicles problems as well as cars trade in value on frontend.
- Reactive frontend framework to provide more details by updating iframe for that helps provide more detail on the vehicle being viewed.