



# SALLEM AHMED



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<https://asallem94.github.io/>



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[sallem-ahmed](#)

## SKILLS

### LANGUAGES

JavaScript, Ruby,  
SQL, CSS3,  
HTML5, Git, Swift  
4, MATLAB®,  
PostgreSQL/  
SQLite (object-  
relational  
Database),  
Firebase (Nodal  
Database)

### TECHNOLOGIES

React, Redux, jQuery,  
Active Records, Rails  
Action Cables, Ruby  
on Rails, Google  
Maps API

## EDUCATION

**App Academy** - Web  
Application Development  
2018 Full-time program

**The City College of New  
York** – Bachelors of  
Engineering  
**2012-2017**  
Structural Civil  
Engineering - **GPA: 3.7**

### Relevant Courses

Machine Learning,  
Computational  
Methods, System  
Analysis, Differential  
Equations, Linear  
Algebra, Finite  
Elements

## PROJECTS

### Meet-in: Meetup Clone (React, Redux, Rails, PostgreSQL, Action Cables)

- Establish secure user authentication with demo trail login using BCrypt gem.
- Extract event and groups by user filters according to radial distance from user location or selected reference point, search query results by title or description, and by date.
- Leveraged join tables for RSVPs and joining groups.
- Implements Action Cables for two-way messaging communication.
- Utilizes google translate plugin to allow users to interact in their native language.

### Cannon Guardian: interactive web game (JavaScript, HTML, CSS)

- This interactive web game utilizes animation frames while incorporating projectile motion trajectory and perspective resizing alludes a cannon being launched at the player.
- Includes score recording and increments difficulty for the player.

### IOS Event Management Application (Swift 4.1, Firebase)

- Fully programmatic implemented application with user-interactive animations.
- Functional instant text, image and video messaging implementation using Firebase Real-time Database.
- Firebase Authentication applied for secure log in and profile setup.

## EMPLOYMENT

### Turner Construction, Field Engineer, Cost Analyst 2018

September 2017-

- Managed subcontractors of 10-30 labors in renovating the Mt. Sinai pediatric center and neurology center.
- Created Financial Quarterly reports.
- Created a program to Analyze the At-risk cost on project finances.

### Con Edison, Engineering Aide 2017

June 2016 – March

- Prepared forecast Calendar of projects with macro excel set up to better manage project expenses and budgets
- Developed a Risk Management Analysis Excel Macro tool to aid in analyzing and understanding unfortunate possibilities and proper approaches to minimize risk.

### City College of New York Research

October 2014-September 2016

- **Co-authored Publication** - Effects of Overweight Vehicles on New York State DOT Infrastructure
- Constructed a program to simulate the effects of overweight trucks on existing NYS pavements.
- Resolved the most appropriate structural material configuration to provide most economical and sustainable design depending accounting for weather effects.
- The NYS DOT uses the simulation to support the research decision of NYS pavement construction and rehabilitation resulting in identifying \$95 Million per year on pavement damage incurred by overweight trucks.