

SALLEM AHMED

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



[asallem94](#)



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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, AWS
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 – 2012-2017

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

Relevant Courses

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

PROJECTS

Meet-in: Meetup Inspired Web Application

[LIVE](#) | [REPO](#)

React, Redux, Rails, PostgreSQL, Action Cables

- 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.
- Incorporated AWS for hosting user, groups and event images

Cannon Guardian: Browser-based Game

[LIVE](#) | [REPO](#)

JavaScript, HTML, CSS

- Incorporated animation frames with projectile motion.
- Resized Cannonballs with 3d perspective without leveraging external libraries.
- Included incrementing scoring and difficulty.
- Sound interactive with user and game actions

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

September 2017-2018

- 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

June 2016 – March 2017

- 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.