SALLEM AHMED

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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 – 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.

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.