



SALLEM AHMED

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Former general contractor field engineer and cost analyst, seeking opportunities to work on the front-end or back-end of exciting web and mobile applications.

SKILLS

LANGUAGES

Swift 4, JavaScript, Ruby, SQL, CSS3, HTML5, Git, 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

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

App Academy - Web Application Development
2018 Full-time program

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 simulation of overweight trucks on existing NYS pavements determining the most appropriate structural material configuration to provide most economical and sustainable design depending accounting for weather effects.
- The NYS DOT uses the simulation support the research decision of NYS pavement construction and rehabilitation resulting in identifying \$95 Million dollars per year on pavement damage incurred by overweight trucks.

PERSONAL PROJECTS

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.

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

- Establish secure user authentication with demo trail login with 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 for events using Active Records to manipulate SQL queries.
- Leveraged join tables for RSVPs and joining groups.
- Implements Action Cables for two-way messaging communication.

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.

Trails: Ruby on Rails Replica (Ruby)

- Creates a framework that reads response sends request to the user
- Analyzes the appropriate route to direct the request
- Includes flash functionality by instantiating life cycle request
- Replicates cookies to allow the server to store information