SALLEM AHMED

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SKILLS

LANGUAGES
JavaScript, Ruby, SQL, CSS3, HTML5, Swift 4, MATLAB®

TECHNOLOGIES
React.js, React Native, Redux, AWS, jQuery, Web Socket, Ruby on Rails, PostgreSQL/ SQLite, Firebase, Git

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

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.
- 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.

PROJECTS

Muzsphere: Tech Lead on Web and Mobile Application **LIVE**
React.js, React Native, Redux, Rails, PostgreSQL
- Implemented secure token authentication to be compatible with mobile and web applications.
- Created user martial 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 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.
- Incorporated AWS for hosting user, groups and event images.

Meet-in: Meetup Inspired Web Application **LIVE | REPO**
React, Redux, Rails, PostgreSQL
- 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.
- 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
Focused on Management, Leadership and Software solutions
- Managed subcontractors of 10-30 labors in renovating the Mt. Sinai pediatric center and neurology center.
- Built Management Software tool to manage the attendance and work of construction laborers.
- Developed a Risk Management Analysis tools to aid in analyzing and understanding unfortunate possibilities and proper approaches to minimize risk.