Mohamed M. ElGabaly
SOFTWARE DEVELOPMENT ENGINEER

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ABOUT ME

Software Developer and experienced engineering professional. Effective at combining creativity and problem-solving with a life-long dedication to learning. Known among staff for innovation, flexibility, and attention to detail.

TECHNICAL SKILLS

Languages: JavaScript, HTML5, CSS3, Python3, CLI, GIT, MYSQL, Mongodb and MATLAB

Applications: Bootstrap, Firebase, JQuery, Node Js, npm, APIs, Express, Handelbars.js, ReactJS, React-Native, Heroku, Github, Jupyter, Flask, Pandas, Pix4D and Microsoft office

EDUCATION

Full Stack Web Development Bootcamp Certificate
University of California, Los Angeles
Graduated, 2019

FAA Remote Pilot Certificate

M.S. Structure Engineering
University of California, San Diego
Graduated, 2017 – GPA: 3.97

B.S. Structure Engineering
University of California, San Diego
Graduated, 2016 – GPA: 3.58

NETWORK

melgabaly.github.io/MoElGabaly/

github.com/MElGabaly

linkedin.com/in/moelgabaly/

PRJOECTS

Project X^2 | *github.com/georgecast12/ProjectX2.git* | *immense-fjord-84838.herokuapp.com/*
- MVC layout project to program DJI Tello drone using its SDK to autonomously fly and scan QR codes for inventory management and or warehouse surveillance.
- Created a script using drone's SDK and NodeJS to fly the drone autonomously, live stream the video and take photos from its camera
- HTML5, CSS3, JavaScript, SDK, BootStrap, MYSQL, Node Js, Express, Handelbars.js and npm

FMLY | *github.com/samg990/Project-1.git* | *samg990.github.io/Project-1/*
- A Mentor Crowdsourcing App created for a client. It allows others to financially donate towards activities for Mentors to do with their Mentees.
- Handled the user creation, authentication and profile generation using firestore from Firebase
- HTML5, CSS3, JavaScript, JQuery, Bootstrap, APIs, Firbase

X3OATS | *https://github.com/samg990/Project_3.git*
- E-commerce mobile app that connects people to share renting boats from captains/owners
- Created the front-end for the boat owners cards, setting-up the back-end for the app and managing the team through sprints
- JavaScript, React, React-Native, Node JS, Express, MongoDB, npm, Xcode and Android Studios

WORK EXPERIENCE

Thornton Tomasetti / Senior Engineer/ Forensics
Los Angeles, September 2017 – April 2020
- Analyzing pre- and post-loss risks, damage and property claims arising from natural or man-made perils
- Managed and distributed tasks across vendors and stakeholders throughout consultation projects to reach a claim settlement within given timeframes
- Projects covered were across various key locations such as China, Mexico, New Zealand, various States in the United States of America and the United Arab Emirates
- Introduced new technologies such as the use of drones to inspect affected buildings, Python and HTML to help facilitate everyday tasks and research incorporating AI in detecting structure distress

Structure Engineering department, (UCSD) / Teacher Assistant
San Diego, March 2016 – June 2017
- Assisted university professors with lectures, lab practical, assignments, grading, evaluation of student projects, held office hours, review sessions and preparation of exams.
- Helped in creating original and interdisciplinary syllabi for 2 senior classes what were newly added to the program and grader for 3 technical classes