

# MOHAMED ELGABALY



Full Stack Developer



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## SKILLS

**LANGUAGES:** Java Script, HTML5, CSS3, Python, CLI, GIT, MYSQL, Mongodb and MATLAB

**APPLICATIONS:** Bootstrap, Firebase, JQuery, Node Js, npm, APIs, Express, Handelbars.js, ReactJS, Heroku, Github, Pix4D and Microsoft office

## SELECTED PROJECTS

### PROJECTX2

GITHUB: GITHUB.COM/GEORGECASTI2/PROJECTX2.GIT  
DEPLOYED: 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.
- Main responsibility was creating a script for flying the drone autonomously and live streaming the video and taking photos from its camera through the drone's SDK and NodeJS.
- HTML5, CSS3, Java Script, SDK, BootStrap, MYSQL, Node Js, Express, Handelbars.js and npm

### FMLY

GITHUB: GITHUB.COM/SAMG990/PROJECT-I.GIT  
DEPLOYED: SAMG990.GITHUBIO/PROJECT-I/

- FMLY is a Mentor Crowdsourcing App. 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, Java Script, JQuery, BootStrap, APIs, Firebase

## PROFILE INFO

Full Stack Developer and experienced engineering professional. Effective at combining creativity and problem-solving with a life-long dedication to learning. Known among staff for strong wit, innovation, flexibility, and attention to detail no matter the complexity of the project.

## WORK EXPERIENCE

### SENIOR ENGINEER (PROPERTY LOSS CONSULTANT)

Thornton Tomasetti

From 2017 - Present

- Analyzing pre- and post-loss risks, damage and property claims arising from natural or man-made perils
- Conducting a variance analysis between the company's data and the consultant on the owner side.
- Playing a key role in settlement meetings and representing the company with the claim adjusters to determine claim values and action plans moving forward
- Managing and distributing 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

### TEACHER ASSISTANT

Structure Engineering department, (UCSD)

From 2016 - 2017

- Assisted university professors with lectures, lab practicals, 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
- Successfully balanced student work-load with teaching work-load

## EDUCATION

### UCLA EXTENTION

FULL STACK DEVELOPMENT | 2019

### UCSD MASTER OF SCIENCE

STRUCTURE ENGINEERING | 2016-2017

GPA: 3.97

### UCSD BACHELOR OF SCIENCE

STRUCTURE ENGINEERING | 2013-2016

GPA: 3.58