

# Mohamed Emish

217 North Catalina Street  
Los Angeles, CA 90004

moemish.com  
Emishmo@gmail.com  
Linkedin.com/in/MohamedEmish  
github.com/mohemish9  
(909) 285-5914

## SUMMARY

Full-stack software Engineer seeking full-time positions. Experienced with web applications development and deployment, and equipped with PM-oriented teamwork skills. I created end-to-end web applications (frontend, API, and database) and developed data pipelines from scratch. Skilled with data engineering tools and cloud architecture.

## TECHNICAL SKILLS

### Programming

**Advanced (+4 years):** SQL, Python, Web development

**Intermediate (1-3 years):** Javascript, Java, R, C++, Ruby, Git, Splunk

### Software Engineering

AWS stack (ECR, EC2, S3, Athena, Glue, Lambda), RESTful APIs, Ruby and Rails, Flask, NodeJS, Frontend, React JS, Angular, Shell (Linux), CI/CD, npm, Docker, Agile (Scrum), Unit testing

### Data Science & Data Engineering

Extract, Transform & Load (ETL), Pandas, TensorFlow, Kares, H2O, EDR Design, Hive, Spark, Presto, MongoDB, Tableau, Excel, Image Classification

## EDUCATION

### Claremont McKenna College, Claremont, CA

May 2021

*Bachelor of Arts, Computer Science (major offered through Harvey Mudd College)*

#### Relevant Coursework

Data Structures, Algorithms, Software Development, Programming Languages, Artificial Intelligence, Neural Networks, Machine Learning with Neural Signal, Probability, Statistics

## EXPERIENCE

### Galaxy Semiconductor Intelligence (Remote)

Sep 2020 - Present

#### Software Developer

- Led the design and implementation of a **server-less application** backend to reduce runtime and cost using **AWS Fargate** and **Lambda**
- Developed machine learning models that improved faulty silicon wafers detection (classification) using **DBSCAN**, **neural network** and **Fast Fourier transform** (FFT)

### Apple Inc., Cupertino, CA

Feb 2020 – Aug 2020

#### API Product Management Intern

- Utilized data in reducing the number of reported production bugs by analyzing API calls logs and communicating the insights to engineering teams to solve these issues
- Led an extensive investigation of user metrics, business KPIs, and revenue forecasting using complex SQL queries, Python scripts (**Pandas**), and Tableau
- Led **data quality assurance** for SQL queries that run automatically to generate Search Engine Optimization (**SEO**) reports for mobile advertisers
- Coordinated between engineering, quality assurance, marketing and sales teams to serve mobile ads for a new segment of applications
- Documented Restful API endpoints and updated the API specification

### Claremont Graduate University, Claremont, CA

Feb 2019 – Dec 2019

#### Software engineering consultant

- Led the design and development of a containerized **React JS** application with **Ruby and Rails API** backend and **PostgreSQL** database to store user data
- Built an **AWS infrastructure** to connect **Ruby and Rails API** to data lake using **Terraform**, **AWS S3**, **Athena**, and **Glue Catalogs**
- Implemented authentication and user profile pages using Containers in **React Hooks**, **HMTL**, **CSS** and **JavaScript**
- Developed data extract, transform and load scripts to unify the datasets and increased variance explained in the data
- Featured-engineered** a Machine learning trainable dataset by developing data ETL and cleaning scripts for +10M data-points

## OTHER EXPERIENCE

### Harvey Mudd College, Claremont, CA

Dec 2020 - Present

#### Neural Networks Teacher Assistant

### Claremont McKenna College, Claremont, CA

Aug 2019 - Present

#### Math and Computer Science Tutor

## SOFTWARE PROJECTS

- MoodMusic: A **Swift/Obj-C** iPhone app
- Connect 4 **Python** App
- LSTM, RNN and CNN using TF