

# OSAMA SOLIMAN

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## SUMMARY

Computer and software engineering graduate student at SJSU seeking a full-time Software Engineering position focused on building high performance, data-intensive and easy-to-operate systems.

## EDUCATION

### San Jose State University

Masters of Science in Computer Engineering, GPA: 3.7/4.0

Aug 2018 - Dec 2020

Relevant coursework: Data structures and Algorithms C++, Computer Network Design, Operating Systems

### German University in Cairo

Bachelor of Technology in Computer and Communication Engineering

May 2007 - Jun 2012

Relevant coursework: Data structures and Algorithms Java, Computer Organization & System Programing

## SKILLS

**Programming Languages:** Python, C/C++, Java, JavaScript, Swift, Scala, R, SQL, SHELL

**Development Tools:** Git, XCode, Maven, UI Kit, Cocoa Touch, JSON

**Operating Systems:** Linux, Windows, Unix, iOS, VMware

**Networks:** Network Design, SAN administration, Ethernet

**Databases:** MySQL, PostgreSQL, Oracle DB

**Frameworks and Libraries:** Apache Spark, pandas, NumPy, TensorFlow, Oozie, Hive, Hadoop

## EXPERIENCE

### Data Structure and Algorithms interviewer, S30, Remote

Aug 2020 - Current

- Mentor software engineering graduates in Data Structures and Algorithms driving a 60% success rate in technical interviews.
- Interview mentees in languages including Python, C++, and Java.

### Data Engineer Intern, Seeloz, San Jose CA

May 2019 - May 2020

- Designed a Sales forecasting model employing ETS, a univariate time series forecasting model, implemented using R with an 76% accuracy. The model improved sales for Seeloz's customers.
- Ported legacy production-line features from R to PySpark jobs efficiently leveraging map-reduce on Spark cluster.
- Created schemas and optimized queries using Scala and Spark SQL library decreasing the runtime by ~25%.
- Analyzed and tested data pipeline's output using Google BigQuery to discover bugs, and resolve, subsequently.

### Technical Support Engineer, DELL EMC, Egypt

Aug 2013 - Aug 2017

- Debugged complex Linux and networks bugs improvising customer imperatives and satisfaction metrics by 20%.
- Automated end-to-end network testing decreasing the testing time by 30%.

## PROJECTS

### Vocal Emotional Recognizer - [Python, AWS, Neural Networks, Keras, Librosa]

Jan 2020 - Dec 2020

- State-of-the-art implementation of neural networks to categorize six vital human emotions using CNNs and GRUs with 81% accuracy. Exposed the model as a microservice using AWS SageMaker.

### Canvas Prototype - Learning Management System - [Java, Spring, React, MySQL, Docker]

Apr 2020 - Jun 2020

- A prototype of Learning Management System interfacing RESTful APIs between students and instructors. Deployed in AWS EC2 and performed testing through JUnit, Mockito and JMeter.

### Parastagram - iOS Instagram clone [Swift, Parse, UIImagePickerController]

May 2019 - Jul 2019

- An Instagram clone with a custom Parse backend allowing users to post photos and view a global photo feed.

### Patent Co-author, DELL EMC

Jul 2015 - Dec 2015

- Co-authored EMC patent "Distributed Analytics-Based IoT Security Platform using Dynamic Trust Scoring and Authentication Leveling" EMC-16-0036 to US patent office patent number US10,057,264 B1.