

# AbderRahman Sobh

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## EXPERIENCE

### Contingent Worker – Pro Unlimited @ Meta/Oculus/Reality Labs

July-2020 – Present

Implemented automated evaluation of image data collected by AR/VR devices in order to uphold the highest standards for image data quality and AR/VR device health.

Created metric dashboards for observing performance of AR/VR devices when used in a variety of different conditions and constraints.

Updated cloud infrastructure components to provide improved visibility, stability, and performance for AR/VR device builds and deployment.

Contributed to codebases for both Android-based AR/VR devices and iOS companion applications for those devices.

### Tech Lead/Manager, Machine Learning Engineering – Earnin, Inc

April-2019 – April-2020

Architected an in-house platform for auto-deployment of machine learning models, reducing model training/deployment times by at least 10x.

Launched multiple Kubernetes microservices providing real-time, business-critical ML model predictions with 24/7 uptime.

Set OKRs and initiatives for the team, resulting in focused projects which provide maximum impact to the company's objectives.

Provided individual mentoring to all team members for specific uses of applied Data Science, Machine Learning, and Data Engineering.

### Lead Data Scientist – Life 360, Inc.

Dec-2017 – June-2018

Created a high-level Roadmap of Data Science projects using User Location Data, Driver Behavior Data, App Usage Behavior Data, and various internal platform metrics.

Developed a data pipeline for refining location data, enriching it with additional insightful transformations, and storing it in a format readily available for predictions.

Built a tool for predicting and ranking the most relevant user locations based on user/group behavioral history.

### Data Scientist – AJ+ / Al Jazeera International

Dec-2016 – Dec-2017

Built an end-to-end service (Data ETL, Score Modeling, Dashboard Display) for live scoring and monitoring of User Engagement on Facebook, IG, YouTube, and Twitter.

## SKILLS

### (Data Science / ML)

Scikit Learn, Spark, Keras, OpenCV, SpaCy, DASK, Kubeflow, SQL, NoSQL, MySQL, Presto, Postgres, Redshift, MongoDB, Redis, Tableau, R, SAS, Matlab, Mathematica

### (CS)

Python, C++, C, Javascript, Android, Gauntlet, React, Fortran90, Java, TCL, VBA, XML, HTML, PHP, CSS

### (Infra / DevOps)

Kubernetes, Docker, Jenkins, Bash, Knative, Helm, Terraform, AWS stack (EC2, Lambda, S3, Sagemaker, EMR, Redshift, etc), Prometheus, Grafana, DataDog, PagerDuty

## GROUPS

Data Scientist  
Engineers Project  
(2016–2017) –  
Burlingame, CA

## LANGUAGES

English, Arabic,  
Japanese

## Software Engineer - University of Illinois at Urbana-Champaign

Jan-2012 - Dec-2016

Designed and built distributed Data Science pipelines using Jupyter Notebooks, Scikit, and Spark, to provide tools for educating future data scientists on the use of NLP.

Developed GUIs using TCL and RAPPTURE (XML framework) for containerized applications to ease application usage for users.

Optimized memory-handling and runtime for nanoscale/molecular-level simulations tracking millions of atoms simultaneously.

Connected application workflows to remote cluster systems and utilized parallel threading on serial procedures to accommodate scaling.

## EDUCATION

### University of Illinois at Urbana-Champaign *Bachelors of Science in Statistics*

August 2007 - May 2012

Dean's Honor List (2007-2008), (2012)

## PUBLICATIONS

Sobh, AbderRahman. "Hypothesis Vetting: The Most Important Skill Every Successful Data Scientist Needs", *KDNuggets*, Nov 2020,  
<https://www.kdnuggets.com/2020/11/hypothesis-vetting-most-important-skill-every-successful-data-scientist-needs.html>

Sobh, AbderRahman. *Essential Data Science: A Guide to the Applied Data Science Toolkit*. Self-published, Amazon Kindle Direct Publishing, Oct 2019.

Sobh, AbderRahman. "Re-Thinking Engagement at AJ+", *AJ+ Platforms*, 11 May 2017,  
<https://medium.com/aj-platforms/re-thinking-engagement-at-aj-69a35e0a38c>

## PERSONAL PROJECT PORTFOLIO

<https://itg-abby.github.io/portfolio/>