AbderRahman Sobh

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EXPERIENCE

Contingent Worker – Pro Unlimited @ Facebook/Oculus

July-2020 – Present

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

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

Expanded infrastructure components to provide improved visibility and stability for device/application builds and deployment.

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, YouTube, Instagram, 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 simulation memory-handling and runtime on millions of data points using Python, TCL by using associative arrays/hash mapping.

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/