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ADHAM EHAB

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EMPLOYMENT

Senior Software Engineer   **Statsbomb (ArqamFC)**   **Jun 2018 - May 2020**
- As a very early hire I contributed to every part of the company's codebase and Infrastructure.
- I was part of the architects team which is responsible for designing a real-time event driven infrastructure on top of Apache **Kafka**, Apache **Beam**, **GKE** and Google **Dataflow**.
- Contributed to building a hyper-cloud infrastructure using **K8s**, **Helm**, **terraform**, **GKE**.
- Led a team of 4 Backend Engineers working on the data products. Interviewed more than 15 engineers.
- Started an internship program and I was responsible for technical interviewing, mentoring and evaluation.

Remote Software Engineer   **Floralytics**   **Sep 2017 - Aug 2018**
- Designed and implemented a realtime web indexing and scraping pipeline on top of scrapy and phantomJS.
- Implemented an NLP framework on top of **Elasticsearch** which performs Natural language tasks on ES data.
- Implemented a **CI/CD** based on **Gitlab CI**, Microsoft **Azure** and **Jenkins**.

Software Engineer   **ABMegypt**   **Nov 2015 –Jul 2017**
- Revamped legacy systems from PHP to **Python** and **Golang** with *4x* performance increase.
- Started a data engineering team which was responsible for managing social media analytics data.

Software Engineer   **Tajjer**   **Mar 2015 –June 2015**
- Re-structured data collection and storage in **MySQL** which enhance the performance by 1.5x times.

Software Engineer, Intern   **ABMegypt**   **Jun 2015 -Aug 2015**
- Worked on some backend systems which collect marketing data from Facebook **graph API**.

EDUCATION

M.Sc in Information Science   **Ain Shams University**   **Sep 2020 – On going**
- Majored in Distributed Systems, Cloud Computing and High performance Data Processing.

B.Sc. in Computer Science   **Ain Shams University**   **2014 - 2019**
- Graduated from the department of Scientific and High Performance Computing

OPEN SOURCE CONTRIBUTION

- **Facebook/OSQuery [16K ★]** : An official *Facebook* project. I've upgraded and rebuilt build systems with python 3.
- **Okteto [1.5K ★]**: An official *Cloud Native Foundation* project. I made multiple contributions to the core of the kubernetes based project. Also contributed to a couple of design decisions.
- **Facebook/PTR [250★]:** An Official *Facebook* project. I've made some small contribution to the python testing suit. Including adding Github Action CI.
- **TextBlob-AR [50 ★]**. Author of the official *TextBlob* Arabic extension. A well-known NLP Python package.
- **SummaNLP/TextRank [800★]:** Added Arabic support to the core algorithm.
- **Weecology/retriever [250★]:** An official *NumFocus* project. I worked on performance optimization in data processing. Increased performance for large datasets 3X.

ADDITIONAL EXPERIENCE AND AWARDS

- **Keynote Speaker:** Ain Shams Computer Vision Conference. Talked about MLOps and Full-Stack Data Science
- **Towards Data Science:** *Featured Writer* for my article about **NLP** and **LSTM** neural networks.

Languages and Technologies

- Go, Python, Java, JS
- Kafka, ELK, Beam, Redis, PostgreSQL, MongoDB, ZooKeeper, etcd, Dataflow, InfluxDB
- Distributed Systems, Microservices, System Architecture ,Infrastructure
- Domain Driven Design, Event Sourcing, CQRS, Stream Processing, Reactive Architecture.
- Site Reliability Engineering, AWS, GCP, K8s.
- Prometheus, Jenkins, Github Actions, CircleCI, Google Cloud Build.