adhaamehab.dev github.com/adhaamehab linkedin.com/in/adham-ehab

ADHAM **E**HAB

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EMPLOYMENT

Senior Software Engineer

Statsbomb (ArgamFC)

Jun 2018 - May 2020

- As a very early hire I contributed to every part of the company's codebase, data design 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** and **GraphQL**.
- Contributed to building a cloud infrastructure and monitoring production systems and doing on-call duties.
- Led and Mentored Backend Engineers working on the data products. Interviewed more than 10 engineers including Senior, Med-level and Interns

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 Computer Science

Cairo University

Sep 2020 – On going

• Majored in Distributed Systems and High Performance Computing.

B.Sc. in Computer Science

Ain Shams University

2014 - 2019

• Graduated from the department of Scientific and High Performance Computing

OPEN SOURCE CONTRIBUTION

- Apache/Beam [5k ★]: An Official Apache & Google project (aka. Google Dataflow). I'm working on
 implementing the beam model and data algorithms in Go-SDK. Trying to become an apache committer.
- 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, Javascript
- Kafka, ELK, Beam, Redis, PostgreSQL, MongoDB, ZooKeeper, etcd, Dataflow
- Distributed Systems, Microservices, System Design, Infrastructure Engineering.
- Domain Driven Design, Event Sourcing, CQRS, Stream Processing, Reactive Architecture.
- Agile(Scrum, Kanban), Test Driven Development (TDD), Extreme Programming

- Site Reliability Engineering, AWS, GCP, K8s.
- Prometheus, Jenkins, Github Actions, CircleCI, Google Cloud Build.