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

ADHAM EHAB

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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. I'm working on implementing the beam model in the Go-SDK
- Facebook/OSQuery [16K *]: An official Facebook project. Rebuilt the python 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.