
EMPLOYMENT

Senior Software Engineer	Statsbomb (ArqamFC)	Jun 2018 - May 2020
<ul style="list-style-type: none">As a very early hire I contributed to every part of the company's codebase, data design and Infrastructure.I was part of the team which worked on designing a real-time event driven system on top of Apache Kafka.Contributed to hot-fixes and monitoring Production systems and doing on-call duties.Led and Mentored Backend Engineers. Interviewed more than 10 engineers.		
Remote Software Engineer	Floralytics	Sep 2017 - Aug 2018
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Re-structured data collection and storage in MySQL which enhance the performance by 1.5x times.		
Software Engineer, Intern	ABMEgypt	Jun 2015 -Aug 2015
<ul style="list-style-type: none">Worked on some backend systems which collect marketing data from Facebook graph API.		

EDUCATION

M.Sc in Computer Science	Ain Shams University	Oct 2020 – On going
<ul style="list-style-type: none">Majoried in Distributed Systems and Cloud Computing.		
B.Sc. in Computer Science	Ain Shams University	2014 - 2019
<ul style="list-style-type: none">Graduated from the department of Scientific and High Performance Computing		

OPEN SOURCE CONTRIBUTION

- Apache/Beam [5k ★]**: An Official **Apache** project. I'm working on implementing the beam model in the *Go-SDK*. Including Windowing strategies and state management.
- 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[7K ★] Arabic extension**. A well-known NLP Python package.
- SummaNLP/TextRank [800★]**: Added Arabic support to the core algorithms.
- 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

- Python, Go, Javascript, shell.
- Kafka, ELK, Beam, Redis, PostgreSQL, MongoDB, ZooKeeper, etcd, Google 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, Containers ,GCP, AWS, K8s, Nomad.
- Terraform, Vault, Github Actions, k8s API, CircleCI.