

Mina Khalil Adly

Backend Software Engineer

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Software engineer with +3 years of experience through all stages of the software development cycle for web applications passed by analysis & design, implementation, deployment, monitoring. Interested in building scalable applications, and system design. Passionate about data engineering and the machine learning field. Awarded by **Hitachi Ltd, University of Chicago**.

SKILLS

- Javascript, Typescript, Node.js, Golang, Express.js, Laravel, Angular.js, React, ReactNative, Nginx, Websockets.
- Python, Keras, Pytorch, Tensorflow, Opencv.
- Mysql, Postgres, MongoDB, Redis, Elasticsearch, Cassandra.
- Docker, Kubernetes, Kafka, Nats.
- Linux, Git, CI/CD Pipelines.
- AWS Solution Architect.

EDUCATION

Bachelor of Computer Engineering

Faculty of Engineering, Cairo University

SEP 2014 - JUL 2019

VERY GOOD [83%]

AWARDS

Hitachi Ltd, Japan  - FEB 2020

Won the **2nd** position in a competition for engineering a tool for Hitachi Ltd to programmatically label huge time-series data that comes from sensors attached to its equipment using smaller training data.

Semi-Supervised Learning, Deep Learning, CNN, LSTM

University of Chicago, Illinois  - DEC 2019

Achieved the **3rd** position in a challenge organized by the University of Chicago looking for predictive models to better evaluate the impact on various social systems and actors due to various events.

Machine Learning, Forecasting

EXPERIENCE

FSTG-Labs, SanFrancisco, CA - *Software Engineer*

SINCE FEB 2020 - PRESENT

Uses **Node.js** as the main stack.

- Implemented services to satisfy all user requirements and performed necessary unit, and integration test cases for them.
- Designed a real-time tracking module for a shipping platform.
- Re-wrote python workers in GO.
- Enhanced ERP platform queries running time by 75% by optimizing database indexes.
- Collaborated with my team to design a sharding scheme and its full migration plan with minimum downtime.
- Migrated services to use an L7 balancer with multiple instances for handling the increasing rate of concurrent users by 30% and solving routing-related issues.

PHREEai, Egypt - phreeai.tk - *Founder*

SINCE AUG 2020 - PRESENT


Uses **Nodejs, Golang, Microservices, Kafka, Kubernetes, MongoDB, Elasticsearch, Python, gRPC, AWS, ReactNative**.

- Design a scalable architecture that can serve thousands of requests every day.
- Provide a serving engine 1.5x faster than the other popular techniques with fancy UI-Components.
- Give our creators the ability to monitor their models' performance with 4 different metrics and scale its workers using a subscription-based module.
- Track users' activity for personalized recommendations based on their history.
- Allow regular/non-technical users to try the latest POC AI models by using a simple interface through a mobile application for both platforms Android and IOS.

TiTrias, Egypt - *Fullstack Web Developer*

JAN 2016 - DEC 2019

Uses **Laravel, Nodejs, Mysql, Angular** as the main stack.

- Designed, Implemented, and maintained websites, APIs, dashboards for 5 projects.
- Developed hybrid mobile apps using Ionic, Cordova.
- Selected Projects:
 - **HistoryDraft**  Platform simulates the historical events through a map tour.
 - **NESTC** Mobile app for events held in Cairo.

PROJECTS

predikt.ME [↗](#) - Graduation Project

Deep Learning, NLP, Arabic, CNN, Collected Dataset

An online portal predicts people's personalities out of 16 MBTI types by analyzing their Arabic tweets.

Nodejs, MongoDB, ReactNative, Python, Tensorflow, ScikitLearn, Gensim.

SpaceNet V6 [↗](#)

ComputerVision, DeepLearning, Semantic Segmentation

Deep Unet model designed to extract the building footprints from radar SAR captured by Capella radar.

Python, Pytorch.

CFO-Financial Forecast Sandesh Brand [↗](#)

Forecasting, LSTM, SARIMAX, VARMAX

Generate the highest accuracy predictions possible for 6 financial variables for two products that the client owns.

Python, Keras, Statsmodels.

E-learn platform [↗](#)

A web portal helps a teacher to create an online study room and invite his students. He accesses a real-time collaborative board and each member takes self-notes and chats with others.

Node.js, Express.js, Socket.io, Angular, MySql.

MyDrum [↗](#)

Image Processing, Realtime Tracking

A Drummer plays with freed sticks in the air and lets this app track each stick movement for a 7-piece drum set using object detection techniques.

C++, OpenCV.

Writer Identifier [↗](#)

Machine Learning, SVM

Script for identifying the writer of a given document using selected features with accuracy 97%.

Python, OpenCV, ScikitLearn.

Search Engine [↗](#)

Machine Learning, SVM

Crawl more than 1 million web pages, create an inverted index for all fetched words, and generate a ranked search result through a web API.

Java, Jersey, MongoDB.

Weddingram [↗](#)

Mobile app helps in the reservations process for photographers, makeup artists, and wedding planners.

Ionic, Cordova.

LANGUAGES

Arabic<native>, English