## Ahmed Osama Mohamed

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## Work Experience

**Software Development Internship Shadi Systems** **Summer 2021**

* Implementation of database queries and stored procedures to build a web application called “Smart Stores”.
* Used SQL with Microsoft SQL Server for implementation, Postman for API testing and ASP.NET Core.
* Documentation for queries and features in the application.

## Education and Certifications

* **B.E. Computer Science,** **Cairo University, Faculty of Engineering**, Credit Hour System. **2017 – 2022**

**Computer and Communications Engineering (CCE-C)**

**Cumulative GPA:** 3.78/4.00

* **Secondary Education,** Dar El Tarbiah Schools. **2014 – 2017**

## Technologies and Languages

* Languages: C++, C#, C, Java, Python
* Full stack web development: HTML, CSS, Laravel, Node JS, Spring Boot
* Technologies: MySQL, Mongo, Git, RTOS
* Machine Learning and Data Analysis: Python, Sklearn, Pandas, Numpy, Matplotlib
* Neural Networks and Deep Learning: Tensorflow, Keras, Trax
* NLP: Word Embedding, Probabilistic Models, Sequence Models, Attention Models
* Other: Data structures and algorithms, Object-Oriented Programming

## Extracurricular Activities

* **Jan 2021 – Present** **Member of BEAT Technical Team**

Machine Learning Engineer

* **June 2021** **STP Machathon 2.0**

Arabic NLP competition Finalist (2nd place).

## Projects

* **Facial Recognition System:**

The project consists of 3 modules. Face Detection, Landmark Detection, Recognition. Different techniques were used to implement the recognition module, like Eigen Faces, Local Binary Pattern Histogram (LBPH).

* **Ticket Booking System**

Built a fully functional booking System. Used Laravel Framework for backend, Vue.js for frontend.

* **Search Engine (Java & Spring boot/React/MySQL)**

Developed a multi-threaded web crawler and an indexer using Java and stored their output in an SQL database.

Created a query processor and a web interface using Node.js and React.

* **Music Player | Spotify clone**

Constructed a REST API for a clone of “Spotify” and “Spotify for Artists” using Node.js and Express.js.

Designed a NoSQL database using MongoDB and Mongoose. Practiced unit testing as well as full documentation, and version control using Git.

* **Egyptian Chatbot Messages Intent Classification**

Solving the Machathon 2.0 Finals chatbots dataset where our team won the second place in the competition.

* **Writer Identification System:**

A project for identifying the writer from scratch, implementing features, trying different models like SVM and KNN, and training the model on IAM Dataset with accuracy 98.7%.

* **Football Scouting System:**

Accomplished the functionalities of data entry for players and scouts in a football scouting system using C# and SQL.

* **Virtual-OS (C):**

Implemented various process scheduling algorithms associated with a memory manager simulating the

tasks of an operating system.

* **5-stage Pipelined Processor:**

Implemented simple 5-stage pipelined processor based on the Harvard Architecture using VHDL.

## Languages

* **Arabic (Native), English (proficient).**