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Work Experience

Software Development Internship	Shadi Systems	Summer 2021
<ul style="list-style-type: none">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).**