Ahmed Osama Mohamed

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Work Experience

Software Development Internship   **Shadi Systems**   **07/2021 – 09/2021**
- 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

- **Bachelor of Computer & Communications Engineering (CCE-C), June 2022**   **2017 – Current**
  Cairo University, Faculty of Engineering (Credit Hours System)
  Cumulative GPA: 3.78/4.00

Soft Skills

- Project Management	- Teamwork	- Time Management
- Presentation Skills	- Leadership	- Problem Solving

Technical Skills

- **AI & Data science:**
  - Data Manipulation and Visualization: Python, Pandas, NumPy, Matplotlib
  - Machine Learning Frameworks: Sklearn, Tensorflow, Keras, Pytorch, Trax
  - NLP: Word Embedding, Probabilistic, Sequence, Attention Models.
  - Image Processing & Computer Vision: OpenCV, Skimage
- **Backend Development:**
  - API development: Laravel, Spring Boot, NodeJS, Express
  - Database Development: MongoDB, MYSQL, SQL Server
- **Programming Skills:**
  - Technical Development (Python, MATLAB, JavaScript)
  - Desktop development (C, C++, C#, JAVA)
  - Algorithms Analysis and Design, OOP & Data Structures

Achievements

- **STP Machathon 2.0 Arabic NLP Competition 2nd place winner (June 2021)**
  Created an intent classier for an Egyptian chatbot using Deep Neural Networks & Transformers.
  Implemented with Keras, PyTorch, Tensorflow, HuggingFace, Ara-Bert.

Extracurricular Activities

- **Jan 2021 – Dec 2021**   **Technical Team Member**
  Interested in learning Software Engineering & AI.
  Responsible for Machine Learning modules in different projects like Hearing Aids Project.

Projects

- **Facial Recognition System:**
  Implemented fully functional 3 modules. Face Detection, Landmark Detection, Recognition. Different techniques were used to implement the recognition module, like Eigen Faces, and LBPH.
- **Writer Identification System:**
  Writer Identification system with IAM Database, using KNN & SVM.
- **Ticket Booking System**
  Built a fully functional booking System. Used Laravel Framework for backend, Vue.js for frontend.
- **Search Engine**
  Developed a multi-threaded web crawler and an indexer. Implemented with Java, Spring boot, React, and MySQL.
- **Music Player | Spotify clone**
  Constructed a REST API for a clone of "Spotify" and "Spotify for Artists" using Node.js and Express.js.