MOHAB M. ELSHEIKH

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EMPLOYMENT

Backend Engineer, Intern

Arch17

Aug 2018 – Jan 2019

E-commerce website for architecture and interior design.

- Implemented a notification system to display the latest updates.
- Developed an advanced search engine that helps users explore new furniture.
- Enhanced, maintained the business center system that enables users/stores to add & edit their products.
- Implemented various custom modules to handle Referrer-Redirection, Media Uploading, and Image editing.
- Implemented a blogging system that helps designers explore & Showcase their projects.
- Tech stack: PHP, MySQL, Codelgniter, Git, Linux.

EDUCATION

Specialization

University of Alberta

Mar 2020 – Persent

- Software Design and Architecture Specialization
- Object-Oriented Design; Design Patterns; Software Architecture; Service-Oriented Architecture.

Mansoura, Egypt

University of Mansoura

Aug 2014 - Jul 2018

- B.Sc., Faculty of Computer and Information Science, Computer Science department.
- Projects:
 - Al agent to solve Knights Tour Using IDS Algorithm;
 - Programming Language Design using GOLD Builder System.
 - NLP tool: text prediction and spelling correction.

TECHNICAL EXPERIENCE AND SELECTED PROJECT

Stock Market Decision Support System using Deep Learning & Sentiment Analysis. (Link)

Tech stack: Python; Keras; PHP; Scikit-learn; Numpy; Pandas; Matplotlib; Textblob.

Arabic NLP tool used to perform Text Search, POS tagging, Translation, and diacritization. (Link)

Tech stack: Python; NLTK; Pyaramorph; Tashkeela.

Python package to Fetch & Analyze Stock Market data. (Link)

Tech stack: Python; Numpy; Pandas; Textblob; Matplotlib.

Stock Market Prediction Using Neural Network Models. (Link)

Tech stack: Python; Numpy; Pandas; Keras.

• Image Segmentation Using Otsu Threshold Method. (Link)

Tech stack: Python 2, Numpy, Matplotlib, PIL.

• GUI software to Encrypt\Decrypt file(s) using Advanced Encryption Standard (AES). (Link)

Tech stack: Python; Pycrypto, Tkinter.

Video Sharing website using pure PHP. (Link)

ADDITIONAL EXPERIENCE

- IBTIECAR2018 Innovative Competition: Qualified to the Final Round for the AI and Federated ML Track.
- Problem solving: Solved 200+ algorithmic & mathematical problems on multiple online judges.
- Participated in Problem solving competitions SnackDown (2017) & A2OJ Code battle (2017).
- Summer Internship at ITI Mansoura (Open Source Development) (Jul 2017 Sep 2017)
- Web Developer at United Nations Volunteers (UNV) program. (2020)

LANGUAGES AND TECHNOLOGIES

- Languages: PHP; Python; C++; C#.
- Web: Codelgniter; Django; MySQL; HTML; CSS; Javascript; AJAX; JSON; Bootstrap;
- Tools: Microsoft SQL Server; Anaconda; XAMPP; phpmyadmin; MySQL Workbench; Git; Keras;
- Concepts: Problem Solving; Data structure; Algorithms; OOP; MVC; Unit testing; Design Patterns; Linux; Web Development; Database; Version Control Systems; REST API; Machine Learning.