Ahmad Radwan

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EDUCATION

AL-AZHAR UNIVERSITY
FACULTY OF ENGINEERING
Sep. 2018 - Aug. 2022 | Cairo, Egypt
BEng, Major in Systems and Computer Engineering

SKILLS

LANGUAGES
C/C++ • Java • Python • JavaScript
Kotlin • SQL • Bash • PostgreSQL • LaTeX

TOOLS & TECHNOLOGIES
Django • React • NLP • HTML/CSS
Git • Linux • Android • Design Patterns

VOLUNTEERING

AL-AZHAR ICPC COMMUNITY
MENTOR & PROBLEM-SETTER

- Teaching topics, popular algorithms and techniques of competitive programming (CP).
- Helping write problem-sets for weekly sheets and contests.
- Trained 100+ students in Level 1 & 2 Training.

ACPC
CONTRIBUTOR

- Problem-setter at the 2022 Moroccan Collegiate Programming Contest.
- Tester at the 2022 Syrian Collegiate Programming Contest.

EXTRA-CURRICULAR

AL-AZHAR ICPC COMMUNITY
SOCIAL MEDIA COMMITTEE HEAD

- Using social media platforms to connect with trainees.
- Building and organizing the training step by step, publishing all content about CP & problem solving.

EXPERIENCE

BLD.AI | SOFTWARE ENGINEER
Mar. 2022 - Present | Florida, United States (Remote)

- Designing, maintaining and developing new features on projects, using **Django**, **PostgreSQL**, **React.js** and **React Native**.

PROJECTS

QURANIC SEARCH | NLP (GENSIM), DJANGO, FLASK, REACT.JS

- Developed a **sentence embedding model** using set of methods, based on pre-trained Word2Vec/KeyedVectors models.
- Implemented RESTful APIs that allows users to search **semantically** and **lexically** in the Holy Quran, by a query of one or more words.
- Designed the user interface to search, display results, read and listen to Verses' audio and make bookmarks of Verses' cards.

CS50 WEB PROJECTS | DJANGO, REACT, HTML/CSS

- Finished 5 projects, involved with web design and development; **Search**, **Wiki**, **Commerce**, **Mail**, and **Network**.
- Used Markdown, SaSS, BootStrap, and JsAction Library.

PSOLVING PARADIGMS | C++

- Implemented problems with solutions in dynamic programming, with prerequisites for competitive programmers from several online judges.
- Prepared a sheet in details; difficulty, topics, hints and notes, in case to solve, for learning/training purpose.

IN THE QUEUE, PLEASE! | JAVA, JAVAFX, CSS

- Implemented the Deterministic and Stochastic Models in Queuing Theory, including charts results, if exists for a model.

ELECTRICAL NETWORK ANALYZER | PYTHON (NUMPY)

- Implemented BASED ON computer-aided design.

UNBEATABLE TIC-TAC-TOE | JAVASCRIPT, HTML/CSS

- Developed using mini-max algorithm and alpha-beta pruning.

NOTIFY ME! | JAVASCRIPT, HTML/CSS

- Developed a browser extension to notify contestants on **VJudge.net** for announcements of contests, instead of reloading pages periodically.

AWARDS

Year	Rank	Award
2022	International	**Regional bronze medalist** and **ICPC World Finalist**
2021	11th/145	Africa & Arab Collegiate Programming Championship
2021	15th/180	Egyptian Collegiate Programming Contest
2021	1st/37	Al-Azhar Collegiate Programming Contest
2021	12th National	Google HashCode
2021	Expert	Max rating on CodeForces: 1831, **AhmadEbtihal**