

Abdelrahman Hamdy Radwan

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Work Experience

- **Wuzzuf, Part-time Artificial Intelligence Engineer (Feb 2018 – Present)**
 - Working on enhancing the search, recommendation, ranking and personalization modules.
 - Creating an employers' assistant; to help the employers in choosing the best match candidates and post jobs easily.
 - **Tech stack:** Python, Flask, Scikit-learn, Gensim, SpaCy, TextBlob, FastText, Raza NLU.
- **The D. GmbH, Full-time Data Scientist (Dec 2017 – Present)**
 - Working on creating a virtual football/soccer coach in [CUJU](#) app.
 - Implementing Machine Learning and NLP models in [CUJU-Chatbot](#); to make it smarter.
 - Working on crawling and scraping football/soccer related data from different websites.
 - Working on optimizing the indexing and searching in Elasticsearch; to make it personalized.
 - **Tech Stack:** Python, Flask, Node.js, Elasticsearch, MongoDB, Dialogflow, TensorFlow, Scikit-learn, Gensim, SpaCy, Docker.
- **Edfa3ly, Part-time Artificial Intelligence Engineer (Sep 2017 – Feb 2018)**
 - Created the Artificial Intelligence engineering team and set up the team's roadmap and vision.
 - Investigated the market needs, and how we can use Artificial Intelligence in our products.
 - Worked on an Artificial Intelligent shopping assistant, including shopping recommendation module and a Chatbot.
 - **Tech stack:** Python, Flask, Dialogflow, Elasticsearch, TextBlob, FastText.
- **Trendak, Full-time Data Engineer (Jul 2017 – Dec 2017)**
 - Worked on crawling different social media channels in different languages.
 - Worked on optimizing our Elasticsearch engine to retrieve more related data to the queries' keywords.
 - Used Big Data technologies to handle the data streaming; to be able to answer real-time queries.
 - Worked on building a pipeline to annotate the crawled data, and extract insights and analytics from them.
 - **Tech Stack:** Python, Django, Java, Elasticsearch, Redis, Apache Storm, Apache Kafka, Apache Zookeeper, Docker.
- **Microsoft Advanced Technology Lab (ATLC), Software Engineering Intern (Jul 2016 – Sep 2016)**
 - Worked on [LUIS](#) (Language Understanding Intelligent Service), added Japanese/German/Portuguese language models.
 - Worked on [CRIS](#) (Custom Recognition Intelligent Service), built a showcase demo for Microsoft Cognitive Services.
 - **Tech Stack:** C#, .NET, Python, Flask.
- **Association for Computing Machinery (ACM), Volunteer Mentor (Sep 2014 – Jan 2018)**
 - Mentored junior students on various algorithms, data structures and problem-solving techniques.
 - Created and tested algorithmic and mathematical problems for various ACM contests.
 - **Tech Stack:** Python, C++, STL.

Education

Ain Shams University (2018 – Present)

- Pursuing Master's degree in Artificial Intelligence and Machine Learning.

Mansoura University, Research Assistant (2017 – Present)

- Working with [Islam El-Hosary](#) in Computer Science department on research and implementation of innovative ways to enhance the progress made in the machine comprehension of text using deep learning.

Ain Shams University (2013 – 2017)

- Bachelor's Degree in Computer Science with 03.00/04.00 GPA.

Open Source Projects

[More Contributions](#)

- **Image Colorization:** CNN based tool, which can colorize grayscale images.
Toolkits: Python, Flask, TensorFlow, OpenCV, NumPy, Pillow.
- **Objects Detection in Noisy Images:** An intelligent tool which can detect and count geometric shapes in noisy images.
Toolkits: Python, OpenCV, NumPy.
- **Open Domain ChatBot:** Deep learning based open domain Chatbot, based on Google's [Neural Conversational Model paper](#).
Toolkits: Python, TensorFlow, NLTK, Pandas.
- **Magnetic Lasso Tool:** A livewire used for selecting objects from images to resize/delete/copy/move them.
Toolkits: C#, Windows Forms.
- **Facial Gesture Recognition:** Deep learning based tool, which can control the PC using the facial gesture.
Toolkits: C#, Windows Forms.
- **Arabic Handwritten numbers recognition:** Naive Bayes classifier for Arabic handwritten numbers.
Toolkits: C#, Windows Forms.
- **I Read:** Web app by which you can view, list and read free books with advanced search/filters features.
Toolkits: Python, Django, Elasticsearch.
- **Jobs Recommender:** Jobs Recommendation system, based on user's passion and interests, trained on [Wuzzuf dataset](#).

Toolkits: Python, Elasticsearch, Pandas, NLTK.

- **Pascal Compiler:** Lexical (scanner and parser) and Semantic analysis phases for Pascal programming language.

Toolkits: C#, Golden Parser.

- **Operating System Memory Management:** A memory management module with kernel features.

Toolkits: C, Assembly language.

- **Brain Game Box:** Two strategic games, 2D Chess and Portals 2D game.

Toolkits: C#, XNA game studio.

- **Classic Game Box:** Two classical console games, 2D packman and 2D Bomber-man.

Toolkits: C++, SFML library.

Skills

- **Programming languages:** C, C++, C#, Python, Java, JavaScript, SQL.
- **Competitive programming:** Solved [1.5k+ algorithmic problems](#), participated in Google Code Jam, Google Hash code, Facebook Hacker Cup, Top Code Open (TCO) and ACM contests.

Leadership Activities

- Explained Computer Vision basic concepts in the Computer Vision official Hackathon at Ain Shams University. (2018)
- Organized and led the Quora World Meetup in Cairo, with 120+ attendees and 6+ thought circles. (2017 & 2018)
- Organized and led the Official Algorithms Battles at Ain Shams University with 500+ participants. (2017)
- Explained Machine Learning and AI basic concepts at Ain Shams University with 50+ attendees. (2017)

Achievements

- 2nd place in the official Computer Vision content at Ain Shams University, out of 25+ teams. (2018)
- 7th place in the ACM regional contest in MENA, out of 90+ teams. (2017)
- 6th place in the ACM national contest in Egypt, out of 250+ teams. (2017)
- 3rd place in the ACM local contest at Ain Shams University, out of 75+ teams. (2017)
- 10th place in Wuzzuf Algorithms Battle in Egypt, out of 3000+ participants. (2017)
- Quora most viewed writer in many computer science related topics, with 1.3k+ followers and 1m+ answers views. (2017)
- Received thank you emails from Facebook, Quora, LinkedIn, and Wuzzuf; for reporting bugs in their websites/apps. (2017)
- 4th place in ACM local contest at Ain Shams University out of 50+ teams. (2016)
- 1st place in the algorithms projects competition at Ain Shams University, out of 180+ teams. (2016)
- 4th place in the algorithms' design and analysis course practical assessments, out of 500+ participants. (2016)
- 4th place in junior year summer projects competition at Ain Shams University, out of 180+ teams. (2014)

More about me: www.sincere.ly/abdelrahmanhamdyradwan/