

Ahmed Mohamed

Work Experience

- **Teaching Assistant**

Faculty of Engineering - Ain Shams University

- **Software Engineer**

F123 (Remote)

Education

- **Master Degree of Computer Science**

2019 – Present
Cairo University

- **Bachelor Degree of Computer Science**

2014 – 2018
Thebes Academy

Programming Contests Activity

- 1st Place CS50x coding contest 2017
- 4th on Egypt, 95th worldwide among 3350 teams – IEEEExtreme Competition
- 2nd Place ACM QECPC 2017
- Contestant at ACM ECPC 2017
- Contestant at ACM ACPC 2017
- 1st Place ACM Thebes AcademyCPC 2018
- Contestant at ACM ECPC 2018

Competitions & Achievements

- 1st Place InnovEgypt Winter 2017
- 5th Place Mecato Line Follower Robot challenge 2017
- 7th Place Robocon Azhar 2017
- 1st Place iCamp Sumer 2017
- 2nd Place ZEH Competition Summer 2017
- KuaiKai Self-driving Racing Challenge – China 2018

Online Courses Certificates

- | | |
|---|----------|
| - Machine Learning Specialization | Coursera |
| - Mobile Web Specialist Nanodegree | Coursera |
| - Python for Everybody Specialization | Coursera |
| - Machine Learning (Stanford University) | Coursera |
| - Deep Learning Specialization | Coursera |
| - Self-Driving Car Nanodegree | Udacity |
| - Advanced Machine Learning Specialization | Coursera |

Projects and Experience

- **Advanced Driver Assistance Systems (ADAS)** Graduation project
Supervisors:
 - Prof. Sharif Hammad sherif.hammad@eng.asu.edu.eg
 - Dr. Hossam Hassan hossameldin.hassan@eng.asu.edu.eg**Modules:**
 - Lane Detection
 - Tracking and Depth Estimation
 - Path Planning
 - Object Detection,
 - Behavioral Cloning
 - localization
- **Arabic Speech Recognition Systems** – build speech recognition system using kaldj, Also I have tried several others framework Sphinx, HTK, Mozilla Deep speech.
- **Arabic Text to Speech Systems** – build Text to Speech system using Merlin and Ossian, Also I have tried several others framework like Festival and Tacotron.
- **Dog breed identification** — Kaggle Competition In this challenge, I implemented fully connected deep neural network to predict 120 Dog breed identification with 10 thousand images net.
- **CIFAR-10 -Kaggle competition** I implemented a CNNs to classify 50 thousand images to 10 classes by using CNN, Keras, Sklearn and Kaggle Kernel.
- **Design a Fisher's linear discriminant algorithm that can classifying images of the 10 digits, I implemented this algorithm from scratch.**
- **Design spectral clustering** — Apply the unsupervised learning clustering algorithm with the goal of identifying two clusters corresponding to two concentric circles, I built this classifier from scratch.
- **Face Detection using Yolo on Nvidia Jetson TX2**

Internship

- | | |
|---|---------|
| - InnovEgypt Program – TIEC | 1 Week |
| - Mini Maker Diploma – U.S Embassy, Cairo | 2 Month |
| - Advanced Maker Diploma – U.S Embassy, Cairo | 2 Month |
| - NTL – Machine Learning Track | 6 Month |
| - Information System Intern – Ministry of Communications and Information Technology (MCI) | 4 Weeks |
| - NTL Administrative Coordinator – ITIDA | 1 Week |
| - Big Data Science Track – National Telecommunication Institute | 3 Month |
| - Google Summer of Code '19 – Google | 2 Month |

Extracurricular activities

- MSP Egypt (Microsoft Tech Club) – Technical 2016
- Pixel (Faculty of engineering Helwan university) – Maker 2016–2017
- InnovEgypt Graduation ceremony 2017 – Organizer 2017
- FLL (FIRST LEGO League) – Judge Assistant 2017
- IEEE Cairo Student Branch – Computer Moderator 2017–2018
- TIEC Ambassadors (Innovation Student Ambassador) 2017–2019
- IEEEExtreme Student Ambassador – IEEE 2017–2019

Others

- **Programming Languages:** C++ – Python – Java – JavaScript – R – Julia
- **Technologies:** SQL – Tableau – IBM Watson – Google cloud platform – Kubernetes – Docker – Git
- **Interests:** Problem Solving – Artificial Intelligence – Big Data – Robotics
- **Hackathon:** Junction – IOT Egypt – NASA Space Apps – Flat6labs
fintech Hackathon Microsoft Code4Youth – Global Game Jam – Lean
Startup Methodology Training for Startups & SMEs
- **Language Skills:** Arabic: Mother Tongue
English: Advanced Italian: Intermediate
- **Personal Skills:** Teamwork, Interpersonal, Sociable and self-motivated
- **IDEs & Editors:** Sublime – VIM – Code::Blocks – Eclipse – Geany –
PyCharm Microsoft Visual Studio – Netbeans – Android Studio – Unity –
Atom
- **Much Fun:** Swimming, Football, Helping Others

I'm a Software Developer and Data Science enthusiast with a strong engineering background, I am a self-motivated person who is willing to go above and beyond, I really enjoy learning new things and strongly capable in understanding any process & making decisions with minimum supervisions, I can ensure you that I will always give the first priority to my responsibilities.

I have attached my CV, which includes more details about my background and work experience, and how they add value to this position, I am confident that I would be an asset to your company, I look forward to speaking with you about how I can help your team achieve its goals.

Work Experience:

Google summer of code intern '19 - Google

Teaching Assistant "Part-time" - Faculty of Engineering Ain Shams University

Data Science intern – NTI

Software engineer - F123

Online courses:

Machine Learning Specialization

Python for Everybody Specialization

Deep Learning Specialization

Self-Driving Car Nanodegree

AI Programming with Python Nanodegree

Technologies:

Programming languages (Python, R, C++, Ruby, Scala) || Python libraries (Pandas, Numpy, Scikit-learn, Scipy, Scrapy, Flask, Selenium, BeautifulSoup, etc..) || R packages (dplyr, ggplot2, shiny, caret, etc..) || Machine Learning techniques (Keras, Tensorflow, Pytorch, MxNet, NLP, KNN, Random Forest, Bayesian Statistics, Naive Bayes, SVM, Tableau, etc..) || Big Data (Hadoop, Spark, Hive, Flume, Sqoop, Cloudera, MongoDB, SQL, PostgreSQL) || Cloud (AWS, Azure, GCP, Colab, Kaggle) || DevOps (Linux, Bash Script, Docker, Kubernetes, Jenkins, Heroku, CI/CD, Github) || Frontend (HTML, CSS, java Script, Bootstrap) || Backend (Ruby on Rails, NodeJS, REST API, Elasticsearch)

For more info please follow the links below

Github: <https://www.github.com/ahmedmadbouly>

Linkedin: <https://www.linkedin.com/in/ahmed-madbouly>

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Thank you in advance for your consideration.

Sincerely,
Ahmed