

# Ahmed Khfagy

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## Education

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**Ain Shams University University**, Cairo, Egypt  
Bachelor of Computer Science, Bioinformatics, 2018-2022  
GPA: 3.7 out of 4.0

## Projects

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- [Network Flow Algorithms Analysis](#)
  - Analysis and comparison between different network flow algorithms, and a paper review.
  - **Tools and Concepts: Algorithms, Data Structures, Scientific Research, C++, C#**
- [Simple Kernel](#)
  - OS kernel which performs basic operations of an operating system.
  - **Tools and Concepts: Memory managing, semaphores, shared variables, page fault handling**
- [Online Shopping Android Application](#)
  - It is a simple online shopping application which you can order things from McDonald's. You have your own account and get a confirmation mail after your order.
  - **Tools and Concepts: Android Studio, Java, SQL**
- [Children's Chemical Reactions Game](#)
  - It is a simple game with 3 levels which each of them he has to solve a chemical formula.
  - **Tools and Concepts: libGDX, SQL, OOP, Java**

## Certificates

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- Deep Learning. Certificate earned on May 3, 2020.
  - By deeplearning.ai on Coursera
- Machine Learning. Certificate earned on July 3, 2020.
  - By the University of Washington on Coursera
- Data Processing and Feature Engineering with MATLAB. Certificate earned on July 8, 2020.
  - By MathWorks on Coursera
- Data Structures and Algorithms. Certificate earned at October 9, 2020
  - By the University of California, San Diego & National Research University Higher School of Economics on Coursera.

## Skills

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- Tools: Git, TensorFlow, TuriCreate, Anaconda, Arduino, Android studio, WordPress, PL/SQL
- Languages (Ordered by proficiency): C/C++, Java, C#, Python, MATLAB, R, HTML, Julia
- Concepts: Problem-Solving, OOP, Data Structures, Algorithms, Machine Learning, Deep Learning

## Extracurriculars and Leadership

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- acmASCIS student activity part of acm.org, Ain Shams University - Competitive programming mentor. Sep 2019 - Present
  - Mainly help first-year students hone their problem-solving skills using C++.
  - Write problems to test their skills on certain topics and judge CP contests.
- SupportASU, Ain Shams University - Machine Learning committee member - Dec 2020 - Present
  - Learn and implement ML & DL algorithms.

## Honours and Awards

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- **26<sup>th</sup>** place in the 2019 FCI Ain-Shams Collegiate Programming Contest out of **50+** teams.
- **3<sup>rd</sup>** place in Ihub's IChallenge electromechanical.
- **46<sup>th</sup>** place in the 2020 Egyptian Collegiate Programming Contest out of **150+** teams.
- **7<sup>th</sup>** place in the 2020 Ain Shams FCI Collegiate Programming Contest out of **45+** teams.
- **2052** rank worldwide out of **10742** teams in Google Hash Code 2020.
- **6<sup>th</sup>** place in Data Structures competition.