**Ahmed Khfagy**

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GitHub: <https://github.com/aKhfagy>

# Education

**Ain Shams University**, Cairo, Egypt

* Bachelor of Computer Science, Bioinformatics, 2018-2022
* GPA: 3.0 out of 4.0

# Experience

* **Full Stack Developer Training**, Excel Systems – Aug 2021 – Sep 2021
  + Worked on a website part of a supply chain
  + Used Onion Architecture while developing the project
  + Used Agile methodologies to Structure our workflow
  + **Tools and Concepts Learned: .NET Frameworks, Onion Architecture, Agile.**

# Projects

* [Brain-Computer Interface Using EEG Signals for Wheelchair Control](https://github.com/aKhfagy/Brain-Computer-Interface-using-EEG-Signal-for-Wheelchair-Control)
  + Graduation project at Ain Shams University, Bioinformatics Department.
  + Control a wheelchair by extracting simple commands from your thoughts using EEG signals.
  + **Tools and Concepts: Machine Learning Algorithms, Python, Scientific Research, Flask, APIs, Networking, Raspberry PI OS, Bash, Android Studio, Java.**
  + **Grade: A**
* [Manufacturer Supply Chain Website](https://github.com/aKhfagy/ManufacturerSupplyChainWebsite)
  + Part of a supply chain website targeted for the manufacturer to use to place his orders.
  + Developed during Full Stack Developer Training at Excel Systems in less than one month.
  + **Tools and Concepts: .NET Frameworks, Onion Architecture, Agile.**
* [[Exercise Tracker Microservice](https://github.com/aKhfagy/boilerplate-project-exercisetracker)](https://github.com/aKhfagy/boilerplate-project-exercisetracker)
  + A simple exercise tracker microservice which you can track your progress.
  + **Tools and Concepts**: **Node.js, MongoDB, HTML, CSS, NoSQL.**
* [[Simple Kernel](https://github.com/aKhfagy/os-kernel-project)](https://github.com/aKhfagy/os-kernel-project)
  + OS kernel which performs basic operations of an operating system.
  + **Tools and Concepts**: **Memory management, semaphores, shared variables, page fault handling**

# Certificates

* 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
* APIs and Microservices earned on April 25, 2021
  + By freecodecamp.org
* Data Structures and Algorithms. Certificate earned on October 9, 2020
  + By the University of California, San Diego & National Research University Higher School of Economics on Coursera.

# Skills

* Tools: ASP.NET, SQL Server, Sklearn, TensorFlow, Anaconda, Jupyter Notebook, Node.js, Git, MongoDB, PL/SQL
* Languages (Ordered by proficiency): C#, Python, JavaScript, Java, R, C++, MATLAB, HTML, CSS
* Concepts: Problem-Solving, OOP, Data Structures, Algorithms, Machine Learning, Agile Methodologies

# Honors and Awards

* **46th** place in the 2020 Egyptian Collegiate Programming Contest out of **150**+ teams.
* **7th** place in the 2020 Ain Shams FCI Collegiate Programming Contest out of **45**+ teams.
* **26th** place in the 2019 FCIAin-Shams Collegiate Programming Contest out of **50**+ teams.
* **2901** rank worldwide out of **9004** teams in Google Hash Code 2021.
* **2052** rank worldwide out of **10742** teams in Google Hash Code 2020.
* **6th** place in Data Structures competition.

# Extracurricular Activities

* acmASCIS student activity part of acm.org, Ain Shams University - Competitive programming mentor. Sep 2019 – Sep 2021
  + Wrote and tested problems for competitive programming contests
  + Helped students new to programming to understand the basic concepts and improve their skills
* SupportASU, Ain Shams University – Machine Learning committee member - Dec 2020 – Present
  + Helped teach students Machine Learning and Deep Learning Algorithms
* JPMorgan Chase Software Engineering Virtual Experience program participant - Jan 2021
* KPMG Data Analytics Consulting Virtual Internship Jan 2021