

AbdulRahman Khawaga

BIOINFORMATICS GRADUATE | AI & MACHINE LEARNING ENTHUSIAST |
ASPIRING WEB DEVELOPER



CONTACT INFORMATION

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PERSONAL INFORMATION

Full Name: AbdulRahman Mohamed Abdulghani Khawaga.

Nationality: Egyptian.

Date of birth: 10th October 2002.

Place of birth: Dammam-Kingdom of Saudi Arabia.

Home address: Melig-Shebin Elkom-Menoufia.

SUMMARY

Profile

Dedicated Bioinformatics graduate with a strong focus on the synergy between bioinformatics and artificial intelligence in addressing healthcare challenges. My academic background encompasses microbiology, chemistry, genetics, and proteomics. Currently, I am working in front-end development, applying my skills in HTML, CSS, and JavaScript to create user-friendly interfaces. Additionally, I work with PHP for back-end development, enhancing the functionality and performance of web applications. I am eager to leverage my expertise in machine learning and AI to drive innovation in bioinformatics. Committed to continuous learning, I seek opportunities to deepen my knowledge and contribute meaningfully to the field.

Research

Authored a publication in AI focused on anemia classification, exploring its transformative applications in bioinformatics and healthcare improvement.

EDUCATION

Higher Education [2020-2024]

Degree:	Bachelor of Computer and Artificial Intelligence-Bioinformatics.
University:	University of Sadat City.
College:	Faculty of Computer and Artificial Intelligence.
Department:	Bioinformatics.
CGPA:	3.71/4.0
Percentage:	92.72%
Grade:	Excellent with Distinct Honors

EXPERIENCE

Front-End Instructor

Discovery Academy for Science and Technology, Shebin al-Kom, Egypt
November 2024 - Present

- Conducted training sessions on HTML, CSS, JavaScript, and front-end frameworks.
- Developed tasks and projects to support understanding of responsive design, layout systems, and interactivity.
- Provided feedback and guidance to improve student skill levels.

Back-End Developer Internship

Top Business, Shebin al-Kom, Egypt
July 2024 – Present

- Gained hands-on experience in PHP and Laravel for back-end web development.
- Worked with MySQL for database management, optimizing queries for efficiency.
- Collaborated with the development team on projects, enhancing skills in authentication, middleware, and API integrations.
- Implemented CRUD operations, improved code optimization, and ensured security best practices in Laravel applications.
- Worked on optimizing code for efficient back-end operations.

STUDENTS GROUPS/ACTIVITIES

College level

- Second Place, Ideal Student at the College, 2023/2024.
- Head of the Development Committee, "Student for Egypt" Group at the College, 2023/2024.
- Head of the Cultural Committee at the College, 2022/2024.
- First Place, Information League at the College, 2022/2023.
- First Place, Ideal Student at the College, 2022/2023.
- Vice Head of the Cultural Committee at the College, 2021/2022

University level

- Second Place, Ideal Student at the University Level, 2023/2024.
- Second Place, Scientific Initiatives Competition at the University Level, 2023/2024.
- Second Place, Entrepreneurship Competition at the University Level, 2023/2024.
- Participation in the Information League at the University Level, 2022/2023.

National level

- Participation in the 10th Summit Meeting for Ideal Students across all universities in Egypt at Fayoum University, 2023/2024.

COMPUTER & PROGRAMMING SKILLS

Programming Languages

- | | | |
|-----------|--------------------|---------------|
| ▪ Python. | ▪ HTML. | ▪ JavaScript. |
| ▪ R. | ▪ CSS. | ▪ Php. |
| ▪ JAVA. | ▪ SQL USING MS SQL | |
| ▪ C++. | Server. | |

Development Tools

- | | |
|----------------------------|--------------------|
| ▪ Microsoft Visual Studio. | ▪ Apache NetBeans. |
| ▪ PhpStorm. | ▪ IntelliJ IDEA. |
| ▪ R studio. | ▪ PyCharm. |
| ▪ MS SQL Server. | ▪ Colab. |

Frameworks

- Django.
- Bootstrap.
- Laravel.

Operating Systems

- Windows.
- Linux.

PERSONAL SKILLS

- Ability to adapt and work effectively as part of a team.
- Strong capacity to endure work-related stress.
- Proficient in building positive social relationships.
- Fluent in Arabic and English.

HIGHLIGHTS

- **Machine Learning:** Familiar with machine learning algorithms and applications.
- **Artificial Intelligence:** Knowledgeable in AI concepts and their implementation.
- **Programming:** Skilled in problem solving using Python, R, java, and C++.
- **Statistics:** Good background in statistics.
- **Biology:** Excellent background in biology & microbiology.
- **Chemistry:** Excellent background in organic and biochemistry.

COURSES/TRAININGS AND CERTIFICATES

All certificates can be found on this link:

<https://drive.google.com/drive/folders/1znnpnYSKF-BsV-qhSAdb8YqqYI2Ke-1LP?usp=sharing>

Courses

- | | |
|--|---|
| • AWS Academy Cloud Foundations. | • Introduction to Python. |
| • Biomedical Image Analysis in Python. | • Generative AI Concepts. |
| • AI Ethics. | • Understanding Prompt Engineering. |
| • Large Language Models (LLMs) Concepts. | • Differential Expression Analysis with limma in R. |
| • RNA-Seq with Bioconductor in R. | • Analyzing Genomic Data in R. |
| • Understanding Machine Learning. | • Image Processing in Python. |
| • Introduction to ChatGPT. | • CHIP-seq with Bioconductor in R. |
| • Understanding Artificial Intelligence. | • Introduction to Bioconductor in R. |
| • Introduction to the Tidyverse. | • Intermediate R. |
| • Introduction to R | • Harvard University: Statistics and R course. |
| • Data Science: R Basics course. | • Python Programming Basis course. |
| • Database Fundamentals course. | ▪ Computer Networks Fundamentals course. |

Training and Workshops

February 2025-Present	Full Stack Development using PHP (4-Month Intensive Code Camp). Information Technology Institute (ITI), Knowledge City, New Administrative Capital.
July 2024-Present	Web Development training. Top Business, Shebin al-Kom, Egypt.
October 2023	Machine Learning/Artificial Intelligence. From: Information Technology Institute (ITI). Certified
August 2023	Proteomics and metabolomics training. From: Children's Cancer Hospital Foundation 57357. Certified
Jul 2023	Artificial Intelligence in Drug Discovery and Development for Sustainability workshop. From: Scientific Research Group in Egypt (SRGE). Certified
Feb 2023	Web Development using Python training. From: Information Technology Institute (ITI). Certified.
Feb 2023	Protein Identification and Methods of Isolation training. From: City of Scientific Research and Technological Applications (SRTA-City). Certified.
Feb 2023	Artificial Intelligence in Healthcare course. From: Children's Cancer Hospital Foundation 57357. Certified.
Nov 2021	Introduction to Bioinformatics (IBT) training. From: H3ABioNet. Certified.
Oct 2021	Introduction to Web Development training. From: Information Technology Institute (ITI). Certified.

PROJECTS & PUBLICATIONS

Projects

- **Coronary Artery Stenosis Detection:** Developed object detection and segmentation models to assess coronary artery stenosis.
- **Path Planning in Coronary Artery Stenosis:** Implemented algorithms to assist in coronary artery pathfinding for PCI interventions.
- **Anemia Diagnosis & Prediction:** Machine learning model predicting anemia risk based on diagnostic data.
- **University Management System:** Simple GUI-based management system for university records (Java).
- **World of Watches Website:** Full website using HTML, CSS, Bootstrap, and PHP.

Publications

- Anemia Diagnosis and Prediction based on Machine Learning
([10.21608/KJIS.2023.220945.1014](https://doi.org/10.21608/KJIS.2023.220945.1014))

LEADERSHIP

Ability to manage projects and teams and meet tight deadlines, while maintaining the highest standards of quality.

CAREER ASPIRATIONS

- Pursue a Ph.D. in AI and Bioinformatics
- Lead a research team to drive innovative healthcare solutions.