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Language: Arabic (Native), German (Sufficient, B1/B2),
English (Fluent, [IELTS](#)), Spanish (Basics, [OLS-Report](#))
Work Authorization: Eligible for full-time work in Germany.

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Employment

Oct 2022 - Today

Digitization Specialist ([Working Student](#)), [Siemens Healthineers](#), Germany
BI & Dashboarding: Built Qlik Sense dashboards for orders, sales & backlog tracking.
Data Engineering: SQL in Snowflake for ETL, joins, and views to streamline reporting.
Process Automation: Automated reports & alerts with Python and Power Automate.
Advanced Analytics: Supported ML forecasting, maintained weekly trend datasets.

Jun 2022 - Jul 2024

Operations and IT Support ([Volunteer](#)), [START Nürnberg](#), Germany
Boosted operations efficiency and managed technical infrastructure.

Apr 2022 - Sep 2022

Outbound organizer ([Working Student](#)), [Amazon](#), Germany
Controlled and reviewed the outbound process in a central warehouse

Oct 2019 - Mar 2020

Teaching Assistant ([Part-time](#)), [Mansoura University](#), Egypt
Supported the teaching and facilitated learning for two undergraduate courses

Technical Skills

Programming Skills
Software Proficiency

Good: **Python**, **SQL**, **Matlab**, **C++**, **R** & Basics: Scala, Micro C, Prolog
Qlik, **Snowflake**, **Databricks**, Microsoft Power Platform (Power Automate, Power Apps, Power BI) Microsoft Office (Excel, Word, PowerPoint), Azure DevOps, JIRA, SolidWorks, Proteus, WordPress, LaTeX, MeVisLab.

Education

Oct 2020 - Sep 2025:

M.Sc. in Health and Medical Data Analytics and Entrepreneurship ([Diploma](#))
Technical Faculty, Friedrich–Alexander University Erlangen–Nürnberg, Germany.
Final Score: 2.1 (Good).

Thesis title:

Allometric Modeling of Human REE with FDG-PET/CT, Grade: 1.0.

Example Courses:

Service Innovation, Innovation and Leadership, Medical Device Regulations (MDR), Pattern Recognition, Advanced C++ Programming, Human-Computer Interaction.

Sep 2021 - Jan 2022:

Semester Abroad ([Certificate](#) & [Transcript](#))

Example Courses:

Universidad Politécnica de Madrid, Spain (Funded by: EIT-Health & [Erasmus+](#))
Big Data & Data Visualization, Data Processes, Complex Data In Health, Open Data And Knowledge Graphs, Intelligent Systems.

Sep 2013 - Jul 2019:

B.Sc. in Biomedical Engineering.

Faculty of Engineering, Mansoura University, Egypt.

Final Score in German System: 1.3 (91.61%, top 10%) .

([Diploma](#) & [Transcript](#) & [Syllabus](#)).

Thesis title:

Low Cost Ultrasound Cavitation and Liposuction System, Grade in German System: 1.0.

Example Courses:

Project Management, Marketing, Numerical Analysis, Anatomy, Physiology, Biometric and Medical Measuring Instruments, Medical Imaging, Sensors Devices, Physics, Statistics, Electromagnetic Fields, Analog and Digital Signal Processing, Nanotechnology.

University Projects

Jan 2025 - Jul 2025

Allometric Modeling of Human Resting Energy Expenditure Using FDG-PET/CT Imaging Master's Thesis: Expanded research on PET-CT data to extract insights into metabolic parameters and organ volumes. ([Python](#))

Sep 2023 - Mar 2023

Characterizing the Specific REE in PET-CT Images: Initial research project applying statistical data analysis techniques and developing an allometric machine learning model to quantify resting energy expenditure. ([Report](#)) ([Python](#))

Apr 2022 - Sep 2022

Tracking Olympiad: Trained to track moving targets using deep learning algorithms. ([Python](#))

Sep 2021 - Mar 2022	NLP with Disaster Tweets: Classified a sample of Tweets using natural language processing algorithms and visualizations. (Python)
Sep 2020 - Mar 2021	Air Quality in Madrid: Prepared and visualized in a simple GUI an extensive dataset (2001–2018) on the different levels of polluted substances in the Madrid atmosphere. (R)
Apr 2019 - Sep 2019	Prediction of Flight Delays: Applied machine learning algorithms to a big data problem to predict the flight delay given "Data Expo 2009: Airline on-time data". (Scala)
Sep 2019 - Mar 2020	Automatic CPR Device: Acquired experience in mechanical design using Solidworks . Conducted research to select the best mechanical mechanism and analyzed specifications of safe forces to apply on the thoracic cavity. (Report)
Apr 2018 - Sep 2018	Biomedical Image Segmentation Using a Histogram-Based Analysis: Gained experience in Matlab . Created new functions for Otsu and Global-threshold segmentation techniques and accurately segmented lungs from MRI DICOM image samples. (Report)
Sep 2017 - Mar 2018	ECG Monitor by Arduino Shield: Used Proteus to design an accurate Electrocardiogram circuit, executed the Printed Circuit Board (PCB), and installed it on an Arduino for monitoring by any computer device.

Internships and Training

Oct 2023:	EELISA Entrepreneurship School, Waischenfeld Collaborated with international teams to develop innovative business ideas, gaining expertise in business model generation, prototyping, storytelling, and pitching. (Certificate) .
Sep 2021:	Summer School on Learning from Health Data, Université Grenoble Alpes Accomplished 30 hours of training in data analysis, innovation, and entrepreneurship, focusing on advancing strategies for anticipating, diagnosing, and treating leukemia. (Certificate)
May 2019:	Field Training in Hospital Environment, Mansoura University Hospital: Familiarized with the hospital planning Under the standards of the Egyptian Hospital Accreditation Program. -Inventory the installations and needs of operating rooms and intensive care units by the number, condition, brands, manufacturers' origins, and warranty.
Mar 2019:	Siemens Service Engineering Training: Trained in diagnosing software and hardware issues for MRI (e.g., Siemens Symphony) and CT (e.g., Perspective). Assisted with the installation of the Siemens Aera MRI. (Certificate)
Jun 2017 - Mar 2018:	Internship of Medical Devices Maintenance, Medical Devices Maintenance Center: Trained to troubleshoot and maintain a wide range of medical devices e.g.: Ultrasound scanners, Diathermy, ECG, Dental Units, Incubators, Sterilizing devices.
Aug 2017:	Field Training in Hospital Environment, The Emergency Hospital of Mansoura: Familiarized with the hospital planning from the civil engineering point of view according to The Design standards for Egyptian hospitals and health facilities. -Concentrated on the role of engineering management of the hospital.
Jul 2017:	Electronics and Embedded Systems Training by Jelecom: Targeted micro-controller architecture. -Applied a variety of mini-projects.
Jun - Sep 2017:	Introduction to (Embedded System, Robotics, PID Control) Course, AI Academy: Gained Micro C experience through a variety of small projects using different micro-controllers e.g. PIC16F628A. -Designed a functional robotic arm using Solidworks . -Applied PID control on different examples using Matlab and Simulink .

Awards & Honors

Sep 2021 - Jan 2022	EIT-Health & Erasmus+ study abroad scholarship.
Sep 2019 - Feb 2020	Teaching assistant job because of the undergraduate excellence.
Mar 2017 - Jul 2019:	Partial Scholarship for high academic performance for five semesters in a row.

Memberships

Jun 2022 - Today:	START Erlangen-Nuremberg eV
Oct 2021 - Oct 2022:	Erasmus Student Network
Nov 2019 - Today:	Egyptian Engineers Syndicate