

# Saif Wael

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## SUMMARY

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Business Information Systems student at Capital University with a 3.97/4.00 GPA and hands-on experience in data engineering, machine learning, analytics, and full-stack development. Ranked among the top 20 trainees in the ITIDA & NTI Machine Learning Program with a 100% final score. Built and deployed web applications serving 800+ university students. Interested in data engineering, data analytics, and business technology roles.

## EDUCATION

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### Capital University (Helwan University)

*Bachelor of Commerce & Business Administration – Business Information Systems*

- **GPA:** 3.97/4.00 (A+, Excellent)

Cairo, Egypt

Sep 2024 – Present

## EXPERIENCE

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### Digital Egypt Pioneers Initiative (DEPI)

*Microsoft Data Engineering Trainee*

Cairo, Egypt

Jul 2026 – Present

- Selected for the Microsoft Data Engineering track, developing skills in SQL, Python, ETL pipelines, data warehousing, Azure Data Services, and Big Data concepts.
- Applying data engineering concepts through practical labs and project-based learning.

### Misr Insurance Company

*Branch Follow-up Department Intern*

Cairo, Egypt

Jul 2026 – Aug 2026

- Monitored branch operations, identifying recurring service issues and escalation points to support corrective actions.
- Reviewed insurance premium installment procedures and payment compliance workflows, gaining exposure to policy servicing operations.
- Worked with enterprise ERP and DXC systems to map business process and data integration flows between branch operations and back-office functions.
- Coordinated with the Intermediaries Department to understand agent and broker workflows and their integration with branch operations.

### National Telecommunication Institute (NTI)

*Machine Learning Intern*

Cairo, Egypt

Aug 2025 – Sep 2025

- Ranked among the top 20 trainees in the cohort, achieving a 100% final score and receiving the ITIDA Certificate of Excellence.
- Completed 120 hours of intensive training in supervised and unsupervised learning, applying Logistic Regression, Decision Trees, Random Forest, SVM, KNN, K-Means, GMM, and Naive Bayes to real-world datasets.
- Achieved 88.58% test accuracy and a 0.886 F1 score using Random Forest and Decision Tree classifiers, with PCA for dimensionality reduction and Scikit-Learn pipelines for reproducible preprocessing.

### Information Technology Institute (ITI)

*Web Development Intern*

Cairo, Egypt

Jul 2025 – Jul 2025

- Completed a 60-hour front-end development program, building a responsive bakery web application using HTML5, CSS3, and vanilla JavaScript through iterative development sprints.
- Applied web accessibility guidelines and SEO best practices to improve page readability and search engine visibility.

### Elevo Pathways

*Data Analytics Intern*

Remote

Jul 2025 – Jul 2025

- Performed exploratory data analysis on the Titanic dataset using Python, Pandas, Matplotlib, and Seaborn, identifying survival patterns including a 74% female survival rate versus 19% for males.
- Built an interactive Power BI retail dashboard to visualize sales trends, KPIs, and product-level performance for business reporting.

PROJECTS

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- Nexora – Web-to-Warehouse Product Intelligence Pipeline** — *Apache Airflow, ETL*

Oct 2026 – Present
- Developed an end-to-end data pipeline to ingest product information from permitted public e-commerce sources and transform incoming data into analytics-ready datasets.
  - Implemented data cleansing, standardization, fuzzy entity deduplication, and reconciliation against an internal retail product catalog.
  - Designed an analytical PostgreSQL warehouse for historical price snapshots and product attribute tracking using Slowly Changing Dimensions (SCD Type 2), with pipeline orchestration through Apache Airflow.
- BIS Student Portal** — *JavaScript, Firebase, Supabase, HTML5/CSS3, jsPDF, Vercel*

Feb 2026 – Present
- Engineered a full-stack academic portal serving 800+ BIS students at Capital University, simplifying timetable creation and eliminating manual planning from static PDFs.
  - Built a drag-and-drop schedule builder with a Firebase backend and deployed it on Vercel, integrating html2canvas and jsPDF for one-click PDF export of personalized timetables.
- Heart Failure Prediction App** — *Python, Scikit-Learn, Streamlit*

Aug 2025 – Sep 2025
- Developed and deployed an end-to-end machine learning application to predict heart failure risk from patient clinical records.
  - Managed preprocessing, model training, and hyperparameter tuning using Random Forest and Logistic Regression, evaluating performance through accuracy, precision, and recall.

TECHNICAL SKILLS

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- Programming & Web:** Python, SQL, JavaScript (ES6+), HTML5, CSS3
- Data Engineering & Databases:** ETL, Data Warehousing, PostgreSQL, Apache Airflow, Firebase, Supabase, Azure Data Services
- Data Analytics & ML:** Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Power BI, EDA, PCA
- Tools & Methodologies:** Git/GitHub, MS Excel (Advanced), UML, ERP Systems, Agile/SDLC, Vercel, Streamlit

LEADERSHIP & STUDENT ACTIVITIES

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- BIS Teams, Capital University**

Cairo, Egypt
- Marketing and PR Member*

*Jul 2025 – Dec 2025*
- Co-developed a go-to-market strategy for ROOTS, a healthy drink concept, using Segmentation, Targeting, and Positioning (STP) frameworks and contributing to a comprehensive marketing plan.
  - Collaborated with the Graphic Design team on promotional content and communication strategies to support student engagement in departmental events.
  - Assisted in organizing academic seminars, including official delegation visits, supporting departmental communication and event coordination.

CERTIFICATIONS & LANGUAGES

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- Award:** ITIDA & NTI Certificate of Excellence – Top 20 Trainees, Machine Learning Summer Program (100% final score, Sep 2025)
- Languages:** Arabic (Native/Bilingual), English (Professional Working Proficiency, B2)