

AHMED HOSSAM ATTIA

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Ahmed Hossam

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Education

Misr International University

Bachelor of Science in Computer Science

October 2020 – July 2024

Minor: Artificial Intelligence

Heliopolis Modern Language School

High School Degree

September 2018 – June 2020

Cairo, Egypt

Experience

E-Finance

ATM/POS Technical Administrator

November 2024 – Present

Cairo, Egypt

- Configured and maintained ATM and POS systems, ensuring seamless operation across national banking infrastructure.
- Oversaw and assisted with the deployment of IST Switch upgrade from SP 21 to SP 26.
- Provided first- and second-level technical support for hardware/software faults and transaction failures on ATM/POS terminals.
- Worked extensively with the IST Switch and handled transaction message formats conforming to ISO 8583 standards.
- Performed health checks, UNIX-based log reviews, and SQL scripting for transaction tracing, troubleshooting, and system performance optimization.
- Collaborated with cross-functional teams to resolve real-time incidents, reduce system downtime, and support the financial switching network.
- Documented procedures, technical resolutions, and recurring issues to contribute to the team's knowledge base and audit preparedness.

Banque Misr

Data Scientist Intern

August 2023 – September 2023

Digital Factory Sector

- Collected, cleaned, and preprocessed large datasets from multiple sources, ensuring high data quality and integrity.
- Conducted exploratory data analysis (EDA) to identify patterns and trends using statistical techniques and data visualization tools.
- Developed and fine-tuned machine learning models for predictive analytics, including regression, classification, and clustering algorithms.

Projects

Metro Digital Application | Flutter, Firebase, Dart, REST API, UX/UI Design

June 2025

- Led the design and development of a full-featured mobile application for Cairo's metro system to enhance public transit accessibility.
- Implemented multilingual support (Arabic/English) with RTL/LTR compatibility and adaptive UI for improved accessibility.
- Built ticket booking features allowing users to plan routes, view prices, and generate QR code-based e-tickets.
- Developed account management features: secure registration/login, password reset, and biometric authentication.
- Enabled metro map navigation, real-time service alerts, and user feedback collection through the application.

X-Scanner for Web Vulnerabilities | Python, HTML, CSS, JS

June 2024

- Designed and developed a web vulnerability scanner with automated scanning capabilities.
- Implemented algorithms to detect vulnerabilities including SQL injection, XSS, and RCE.
- Enabled users to create and customize scanning programs tailored to specific security requirements.
- Integrated real-time reporting features for immediate feedback on vulnerabilities.

- Designed and developed “Rentify,” a mobile app for vehicle rentals, providing a smooth user experience.
- Implemented secure user authentication and leveraged Firebase for backend services including real-time database management and cloud messaging.
- Integrated a real-time chat system and notification features for communication and updates.

Intelligent Agent for Monitoring Production Lines | Python

May 2024

- Developed an intelligent agent for real-time detection and classification of malfunctions in a simulated production line.
- Integrated hardware components such as Arduino Uno and motor driver H-Bridge to control and monitor the production line.
- Implemented and fine-tuned machine learning models, including CNN-ResNet and LSTM, for malfunction classification.
- Utilized reinforcement learning algorithms to enhance system response to malfunctions.

Fire Service Provider - ERP System | Laravel, MVC Pattern

April 2023

- Developed an enterprise resource planning (ERP) web application for a fire protection service provider using Laravel.
- Followed the Model-View-Controller (MVC) pattern to ensure a well-structured and maintainable codebase.
- Implemented features to manage various aspects of fire protection services including client management, scheduling, and reporting.

Relevant Coursework

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|---|------------------------------------|--------------------------------|--|
| • Computer Applications for Social Sciences | • Computer Networks | • Data Science Foundation | • Mobile Device Programming |
| • Problem Solving | • Web Development | • Theory of Computation | • Graphics and Game Programming |
| • Digital Logic Design | • Artificial Intelligence | • Compiler Design | • Knowledge Representation and Reasoning |
| • Data Structures | • Image Processing | • Designing Intelligent Agents | |
| • Algorithms Analysis | • Machine Learning | | |
| | • Advanced Artificial Intelligence | | |

Skills

Languages: Python, C++, Dart, SQL, HTML/CSS, JavaScript

Frameworks: Flask, Laravel, TensorFlow, Keras, React

Tools & Platforms: Visual Studio Code, Git, Firebase, Android Studio, UNIX

Protocols & Standards: ISO 8583, SQL Scripting, Financial Transaction Switching

Soft Skills: Leadership, Teamwork, Communication, Problem-solving, Time Management

Spoken Languages: Arabic (Native), English (Fluent)

Additional Information

Military Service Exempted