Shorouk Sayed Ahmed

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Objective

Aspiring AI Engineer with a robust foundation in full-stack development, specializing in building and deploying scalable systems. Expert at bridging the gap between machine learning models and production-ready applications. Proficient in Python, RAG pipelines, and developing RESTful APIs for ML inference, supported by a strong background in automated testing and secure code review.

Education

B.Sc. in Artificial Intelligence | Cairo University, Faculty of Computers and AI **2023 – 2027**

Technical Skills

- **AI & Machine Learning:** Python, Scikit-learn, TensorFlow/Keras, Pandas, NumPy, Jupyter, NLP, LLMs (Fine-tuning, RAG), Prompt Engineering, CNNs, RNNs.
- **Frontend & Mobile:** eact.js, TailwindCSS, JavaScript (ES6+), Flutter, React Native, HTML5/CSS3.
- **Backend & Cloud:** FastAPI, Node.js (Express), Django, REST APIs, JWT, Docker, SQL.
- **Quality & Security:** Playwright (TypeScript), Selenium (JavaScript), Page Object Model (POM), Performance Testing, Secure Code Review, Automated Regression Testing.
- **Programming languages:** Python, C++, Java, Dart, SQL.

Experience

Automation & Security Intern | QESTIT Group ***Jan 2026 – Feb 2026***

- Completed intensive training in Automation, Performance Testing, and Secure Code Review.
- End-to-End Testing: Developed comprehensive automation suites for the ParaBank platform using Playwright (TypeScript) and Selenium (JavaScript).
- Design Patterns: Implemented the Page Object Model (POM) to ensure scalable, maintainable, and reusable test scripts.
- Security & Performance: Conducted secure code reviews and performance audits to identify bottlenecks and vulnerabilities in web applications.

AI/ML Intern | Samsung Innovation Campus (SIC) ***Aug 2025 – Dec 2025***

- Data Science: Performed EDA and data cleaning using NumPy and Pandas and built interactive Power BI/Tableau dashboards.
- Machine Learning: Developed supervised and unsupervised models including Regression, SVM, Random Forests, and Clustering (K-Means/DBSCAN).
- Deep Learning & NLP: Implemented CNNs for image processing, RNNs for time-series, and explored LLMs, RAG, and Prompt Engineering.
- Deployment & Automation: Managed experiments with MLflow, deployed apps via Streamlit/Gradio, and built Agentic AI workflows using Make/n8n.

Technical Member | 180 Daraga ***Dec 2024 – Present***

- Developed full-stack projects with React, React Native, Node.js, and Express.
- Built RESTful APIs, improving server response times by 40%.
- Integrated frontends with backend APIs for seamless user experiences.
- Used HTML, CSS, and JavaScript for responsive UI design.

Projects

1. Tammeny: AI-Powered Healthcare Platform **GitHub**

- Architected a scalable microservices-based healthcare AI platform featuring medical image analysis, a RAG-powered chatbot, and OCR document processing.
- Implemented a Retrieval-Augmented Generation (RAG) chatbot using LangChain, enabling contextual question-answering by ingesting and processing medical PDF documents.
- Deployed multiple containerized services (Imaging, Chatbot API, Streamlit UI) with Docker, ensuring modularity and ease of deployment.
- Developed an intuitive Streamlit frontend to unify complex AI services, allowing users to upload X-rays for analysis and interact with the medical assistant chatbot.

2. Wasfa – Recipe Finder Website **GitHub**

- Developed Wasfa, a full-stack recipe management platform leveraging Django and SQLite to provide a robust, scalable backend for complex CRUD operations.
- Engineered a custom modular backend architecture, separating user authentication and profile management from the core recipe discovery logic to ensure maintainable and clean code.
- Designed a minimalist and professional frontend using HTML5, CSS3, and JavaScript, focusing on an intuitive UI/UX and responsive performance.
- Implemented secure relational data modeling to handle user-generated content, enabling seamless recipe storage, discovery, and personalized profile experiences.

3. Car Price Analysis & Market Segmentation **GitHub**

- Conducted comprehensive exploratory data analysis on 11,914 vehicles to identify key price drivers and market segments
- Engineered features and cleaned data, handling missing values and removing 1,332 duplicate records
- Discovered strong correlation between engine HP and price (r=0.7) and bimodal market structure
- Built interactive Power BI dashboards and delivered business recommendations for marketing strategy

4. Bike Sharing Demand Prediction **GitHub**

- Developed a machine learning system to predict hourly bike rental demand using ensemble methods and gradient boosting
- Engineered temporal features and performed comprehensive data preprocessing including encoding and scaling
- Tested 9+ algorithms and optimized LightGBM model through GridSearchCV
- Analyzed feature importance revealing registered users and temperature as key demand drivers.
- Provided operational recommendations for bike distribution based on temporal usage patterns.