# Ahmed Galal Elzeky

Microsoft Certified: Azure AI Engineer Associate — NLP Specialist — Software Developer

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## EDUCATION

**ESLSCA University**  Sep 2021 – Sep 2024
*B.Sc. Computer Science, GPA: 3.5/4.0*  *Cairo, Egypt*

**Japan Human Academy**  Oct 2024 – Jan 2025
*Japanese Language and Business Manner (Remote)*  *Japan*

## EXPERIENCE

**Software Developer**  Sep 2025 – Present
*Develop Systems*  *Maadi, Egypt (Hybrid)*

- **Built and deployed** production-ready applications, delivering both Flutter frontends and Firebase backends for client projects.
- **Supported** transition of applications into production by handling deployment, debugging, and cloud configuration.
- **Implemented** authentication, database design, and API integrations within Firebase to support scalable mobile applications.

**AI Engineer**  Feb 2025 – Present
*Intelligent Systems I-Sys*  *Smart Village, Egypt (Hybrid)*

- **Built** enterprise level AI chat application integrating IBM Watsonx with scalable on-prem and cloud services for secure, explainable, and extensible deployment.
- **Created** conversational agents to **automate repetitive internal workflows**, reducing manual task load, and created document parsing pipelines using RAG.
- **Automated** all dockerization of all developed services and its architecture, as well as **CI/CD pipelines** using Jenkins for on-prem enterprise environment for production use.
- **Trained** Egyptian and Saudi dialect-specific TTS/STT models to enable natural language voice commands.
- **Hosted** AI workshops and live demos to C-suite executives, helping shape enterprise AI strategy. [Workshop Example Link]

**Intern, AI Developer**  Aug 2024 – Oct 2024
*Eviron Adapt*  *SODIC, Egypt*

- **Developed** a Siamese Network for image similarity detection, reducing manual tagging and financial discrepancies in trash bale tracking.
- **Created** a validation model for image quality control based on partner standards, improving rejection accuracy.

**Intern, AI Developer**  Feb 2024 – Apr 2024
*ESLSCA University*  *Sheikh Zayed, Egypt*

- **Built** a GPT-based admissions assistant that automated form responses and document checks for applicants.
- **Contributed** to the AI system that helped ESLSCA win the Times Higher Education Award 2024. [Blog Link]

**Intern, Software Developer**  Jun 2023 – Dec 2023
*IIG-HEC*  *Downtown Katameya, Egypt (Remote)*

- **Developed** a dynamic portfolio website using ReactJS and Firebase, improving internal project visibility.
- **Built** a real-time blog publishing system with Firestore and Firebase Storage.
- [Website Link]

## ACHIEVEMENTS

- **Published Research:** Procedia Computer Science (Elsevier) — "Multi-Hop Arabic LLM Reasoning in Complex QA."
  *Published in a peer-reviewed Elsevier journal focused on applied computer science.*
  [Paper Link]

- **Innovation Award:** Contributed to my university's project that won *Technological or Digital Innovation of the Year* at the Times Higher Education Awards Arab World 2024 (Dubai).
  *Awarded for outstanding implementation of AI in academic processes.*
  [Blog Link]

- **Hackathon Winner:** Won the GenAI Hackathon hosted by Stakpak.
  *Built a working prototype within 48 hours solving real-world AI challenges.*
  [Post Link]

- **Startup Recognition:** Top 3 Finalist in GESAwards Africa 2024 with GPTube.
  *Represented Egypt and North Africa globally among leading EdTech startups.*
  [Post Link]

## SELECTED PROJECTS

### AI CFO Assistant                                                                     2025
*Swipelabs*                                    *Next.js, FastAPI, Supabase, QuickBooks API, Postmark*
- **Built** an AI CFO tool integrated with QuickBooks for **automated financial analysis**.
- **Automated** weekly digest reports on **revenue, burn rate, and overdue invoices**.
- **Enabled** forecasting and budget insights using natural language queries.
- **Designed** dashboards to highlight financial changes and anomalies.

### Slack AI Assistant                                                                   2025
*Swipelabs*                                        *Python, Flask, Slack API, Trello, ClickUp, PostgreSQL*
- **Created** a GPT assistant to streamline Slack workflows and team communication.
- **Linked** Slack with Trello, ClickUp, and Google Calendar for task updates.
- **Integrated** CRM-style follow-ups and time tracking features.
- **Reduced** response delays and improved team coordination.

### Language Learning Platform                                                           2024
*Personal Project*                                    *Django REST, Next.js, React, Google Gemini*
- **Built** an AI vocabulary app with spaced-repetition and mastery scoring.
- **Implemented** a story generator using 90% known / 10% new vocabulary.
- **Added** AI grammar tutor, tracker, and gamified review system.
- **Launched** a reader with contextual lookup and flashcard creation.

### GPTube                                                                               2024
*Graduation Project*                                *Azure, LangChain, Django, React, OpenAI, Chroma DB*
- **Built** a platform to convert YouTube videos into quizzes, summaries, and slides.
- **Used** LangChain + OpenAI to generate contextual learning materials.
- **Selected** as a GESAwards Africa 2024 finalist, representing Egypt.
- [GitHub Link]

## CERTIFICATIONS

### Microsoft Certified: Azure AI Engineer Associate                                     May 2025
*Credential ID: FA9AAA1E4EAF1DC.*

## SKILLS

- **Programming Languages:**

  Python, TypeScript / JavaScript, C#

- **AI, ML, and Data Science:**

  TensorFlow, Keras, Pandas, NumPy, scikit-learn, LangChain

- **Web and API Frameworks:**

  React.js, Next.js, Django, FastAPI, Flask, Express.js

- **Databases and Dev Tools:**

  PostgreSQL, MongoDB, Firebase, Supabase, Jenkins, Git, Postman

- **Cloud and AI Platforms:**

  Microsoft Azure, IBM Watsonx, Google Cloud