Ibrahim Habib

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Summary

Software Engineering student at Suez Canal University with previous experience working as a Machine Learning Intern. I possess a strong understanding of machine learning algorithms and deep learning as demonstrated by the ML course I contributed to as an IEEE volunteer and the certificates I earned from top organizations like IBM and Google. I have experience working with cloud platforms, as I have earned the AZ-900 certificate from Microsoft Azure and completed the AWS Cloud Solutions Architect specialization from AWS.

Education

BS   Bachelor of Computer Science and Information, Software Engineering   2023 to Present
Suez Canal University
- **GPA: 3.9/4.0**

Work Experience

Machine Learning Intern, Technology Rivers   Jan. 2025 to Apr. 2025
Internship Certificate ↗
- Reviewed literature on multi-modal knowledge graphs, GNNs, and multi-modal reasoning.
- Designed and built a structural knowledge graph using Neo4j and Python.
- Used GNN-RAG to solve knowledge-graph-question-answering (KGQA) tasks.

Certifications

DevOps Mastery, Kodekloud ↗   Dec. 2024
- **Skills:** Git, Terraform, Ansible, Python, Jenkins, Kubernetes, Docker

AWS Cloud Solutions Architect, AWS ↗   Sep. 2024
- **Skills:** Cloud Architecture, **AWS**

Google Advanced Data Analytics, Google ↗   Sep. 2024
- **Skills:** Machine Learning, Statistical Analysis, Hypothesis Testing, Data Visualization

IBM AI Engineering, IBM ↗   Jun. 2024
- **Skills:** Machine Learning, Deep Learning, **PyTorch, TensorFlow, Keras**

Data Scientist: Natural Language Processing Specialist, Codecademy ↗   Jun. 2024
- **Skills:** Natural Language Processing, Machine Learning, Deep Learning

Microsoft Certified: Azure Fundamentals, Microsoft ↗   May. 2024
- **Skills:** Cloud Computing, **Microsoft Azure**

People and Soft Skills for Professional and Personal Success, IBM ↗   Apr. 2024
- **Skills:** Communication, Problem Solving, Critical Thinking, Collaboration

Google Cloud Fundamentals: Core Infrastructure, Google Cloud ↗   Mar. 2024
- **Skills:** Cloud Computing, **Google Cloud Platform**

Software Design and Architecture, University of Alberta ↗   Mar. 2024
- **Skills:** Software Architecture, Object-Oriented Design, Microservices, Design Patterns

Projects

Tansik - Gale-Shapley Inspired Stable Matching Algorithm to Match High-School Students to Academic Programs

Dec 2024
[GitHub Repo ↗](#)

- Made an algorithm based on the Nobel Prize winning Gale-Shapley Algorithm to match Egyptian high-school students to academic programs
- Ensured both the stability and optimality of matching generated by the algorithms
- Added more flexibility compared to Egypt's current system by allowing academic programs to have custom criteria for choosing students

Receipt Understanding Model - Fine-tuning LayoutLMv3 on the SROIE dataset to build a receipt understanding model

Oct. 2024
[Model Building PDF ↗](#)
[Kaggle Notebook ↗](#)
[GitHub Repo ↗](#)

- Developed a model capable of automatically extracting key information from receipt: date, company, address, and total price.
- Fine-tuned Microsoft's LayoutLMv3 model by adding a token classification head and training it on the SROIE dataset.

Dahih Al-Dofaa - Desktop application leveraging RAG and LLMs to create a personalized, offline learning experience for university students

July 2024
[GitHub Repo ↗](#)
[Website ↗](#)
[GitHub Releases Page ↗](#)

- Utilized RAG to ground LLM responses on facts from user-provided documents
- Integrated with various open-source LLMs like Llama, Phi, and Qwen
- Used LLMs on-device to provide a private, fully-offline experience
- Employed vector databases for efficient storage and retrieval of embedded facts
- Maintained a clean and organized project structure that follows established coding principles and design patterns

Awards and Achievements

Expert Level at Codeforces

[Codeforces Profile ↗](#)

- Achieved **Expert** rating within **2.5 months** of registering, demonstrating rapid development and proficiency in competitive programming.
- Possess a strong foundation in algorithms, data structures, and mathematical problem-solving, as evidenced by my max rating of **1888**.

Top 1% score on the SAT

Oct. 2021
[Score Report ↗](#)

- The SAT is a highly competitive test for **American Diploma** students and a score of **1550+ is exceptionally rare**.
- Achieved an SAT score of **1570**, demonstrating exceptional academic aptitude, strong analytical and **problem-solving skills**, and the ability to excel under **pressure**, as evidenced by high performance in both verbal and mathematical reasoning sections.

Volunteering Experience

IEEE Suez Canal University Student Branch, Technical Committee Member

Oct. 2023 to Present
[Membership Certificate ↗](#)

- Participated in the technical committee of IEEE Suez Canal University Student Branch.
- Contributed to developing and teaching a **Machine Learning course** for new university student
- Mentored students with no prior programming experience in a web development bootcamp