

Mostafa Abd El-hamid Rihan

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EDUCATION

Helwan University

Bachelor of Computer Science and Artificial Intelligence (GPA: Very Good)

Cairo, Egypt

Sept 2019 – July 2023

EXPERIENCE

Software Engineer

Mar 2025 – Present

Touch

Cairo, Egypt

- Collaborated on full-stack solutions using both **Node.js with TypeScript and MongoDB**
- Led design and implementation of web systems following DevOps and CI/CD practices.
- Managed deployment pipelines, API integrations, and testing strategies for scalability and reliability.

PROJECTS

Pensieve | Node.js, Express, PostgreSQL, React, TypeScript, JWT

Jan 2025 – Apr 2025

- Developed a full-stack application with a focus on scalable APIs, user authentication, and integration of RESTful services.
- Implemented JWT-based authentication and deployed the platform on a cloud-based environment.

Blogs Platform | Ruby on Rails, PostgreSQL, Docker, Sidekiq, Redis

Sept 2024 – Dec 2024

- Developed and deployed a web application focusing on system performance optimization and reliability.
- Worked with Docker and Kubernetes for efficient containerization and deployment.

Fitness System | Python, Machine Learning, Flutter, TensorFlow, OpenCV

Aug 2023 – Dec 2023

- Developed a food recognition-based fitness assistant for health institutions.
- Achieved high accuracy using TensorFlow, OpenCV, and Python models.

Movies Database Website | C, ASP.NET MVC, SQL, TravisCI

Apr 2023 – Aug 2023

- Built a social networking platform for actors and directors with MVC design and SQL backend.

Animated Short Film | Blender

Jan 2023 – Apr 2023

- Created the original animated short film “5 Ain” using Blender’s 3D animation tools.

Dragon Warrior Game | Unity, C

Aug 2022 – Jan 2023

- Developed a 2D fantasy game using Unity’s physics and scripting systems.

Online Food Ordering Website | PHP, Java, MySQL

Jan 2022 – Aug 2022

- Implemented a web-based food ordering platform with backend order management.

Optical Character Recognition | Python, OpenCV

Aug 2021 – Jan 2022

- Created an OCR system using Tesseract and OpenCV with decision trees for text extraction.

Data Retrieval System | PHP, MySQL

Jan 2021 – Aug 2021

- Designed a data storage and retrieval web system with user-friendly UI.

Learning Management System | Java, MySQL

Jul 2020 – Jan 2021

- Built an LMS platform using Java backend, Bootstrap UI, and MySQL database.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (PostgreSQL), JavaScript, TypeScript, HTML/CSS, PHP

Frameworks: React, Node.js, Express, Flask, Ruby on Rails, JUnit, WordPress, FastAPI

Tools: Git, Docker, TravisCI, Google Cloud, Redis, Postman, CI/CD pipelines, VS Code, IntelliJ, PyCharm

Libraries: JWT, Mongoose, TypeORM, Prisma, Devise, Sidekiq, pandas, NumPy, Matplotlib, Tesseract-OCR, PyTorch, TensorFlow, OpenCV, ROS

CERTIFICATIONS

Introduction to Data Science – University of Michigan Jan 2025

Introduction to Programming Using JavaScript – freeCodeCamp Jan 2024

Learn HTML CSS – Codecademy Jun 2023

Cyber Security Training – Teleperformance Jan 2023

Write Professional Emails in English – Georgia Institute of Technology Jan 2022