# Rofayda Bassem ElSayed

✉ rofaydabassem@gmail.com    📞 +02 1277953660    📍 Giza, Egypt    in Rofayda Bassem

## Profile

Looking forward to building a career that aligns with my passion which is software engineering and machine learning. My Objective is work on the projects where I will get the chance to expand my skills and knowledge and would give me the opportunity to apply my education to make a real contribution.

## Education

**Bachelor of Computer and Communication Engineering,**      2019 – 2024
*Cairo University, Faculty of Engineering*
Cumulative GPA: 3.5

**College Saint Vincent De Paul-El Helmeiah El Guedida**      2005 – 2019
Thanawya Amma Result: 100%

## Professional Experience

**Machine Learning internship in ONE LAB**      09/2022
Working with Digital design team to build ML models for Melanoma skin cancer detection on the target FPGA.

**SWE intern at Iskraemeco by ElSewedy Electric**      08/2022
- Working on Web applications that use .NET Web API & Entity Framework Core
- Understanding more about design patterns and SOLID principles.

**Part time Robotics Trainer at STEM club**      07/2022 – present
- Offering young kids, the opportunity to discover their passion for science and technology in robotics training camp held in AUC, Egypt
- Giving Online sessions for MIT App Inventor

## Projects

**EventBrite Web Application**
As the responsible for **DevOps**, I successfully deployed and managed a **Node.js and React application** that mimicked some functionalities of Eventbrite.
My responsibilities included using **AWS EC2** and **Azure** as the cloud providers, dockerizing the application using **Docker**, implementing **CI/CD** automation using **Jenkins,** setting up and configured **Nginx** as a reverse proxy server to handle the application's HTTP requests, and monitoring the server with **Grafana**.
The Team was consisting of 5 sub-teams (Frontend, Backend, DevOps, Testing and Cross-platform)

**Search Engine,** *JAVA*
Developed a multi-threaded web crawler using Java for a search engine project.
Implemented an indexer to extract essential content from URLs and store it in a database.
Created a user-friendly interface to showcase the key features of web crawling, indexing, and ranking.

**Pipelined Processor,** *VHDL*
Design and implement a simple 6-stage pipelined processor, using Harvard architecture. RISC-like ISA.

**C++ and OOP projects**
- Logic circuit simulator GUI application
- Ping Pong Game with SFML library
- Text-Based Battle Game

**DataBase Project,** *SQL and C# (.NET framework)*
Food delivery desktop-based application

**C langauge and Ubuntu OS**
Designing a CPU scheduler with different scheduling algorithms(RR, SJF, MLFQ, HPF)

**Data Structures project,** *C++*
Space Shuttle Management System

**Assembly language**
Microprocessor Emulator Game

**Logic design**
ALU Hardware Design using Logisim

## Leadership and Volunteer

**Cairo University Racing Team,** *Cairo University (Autonomous Team)* 2022
- Responsible of developing algorithms to calculate the optimal path with minimum lap time.

**C++ and OOP workshop Head in Energia Powered** 2022
- Putting the workshop content plan
- Interviewing the members and giving a training for the instructors
- Choosing the final project for participant and supervising the overall performance (final project: text-based Battle game)

**Fund Raising member in Technical Center for Career Development -TCCD,** 2022
*Cairo University*
- Contribute to organize miscellaneous training courses, workshops, job fairs, competitions, exhibitions, recruitment events, seminars and lectures for students.

**Arduino workshop Instructor in Energia Powered** 2021
- Volunteered in preparing sessions' slides and tasks, interviewing participants
- Final project: smart home system

## Skills

- C++ and OOP
- VHDL
- Docker
- Problem Solving

- Python
- HTML, CSS and JavaScript
- SQL
- Machine Learning

- C language
- Familiar with Linux/Ubuntu terminal and bash scripting
- Data Structure and Algorithms
- Java

## Awards

**First place on High school in senior year**

**First place on the republic for 3 times and on the governate for 9 successive times in VolleyBall**