Youssef George Nabil

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EDUCATION

- **Ain Shams University** – B.Sc. in Computer and Artificial Intelligence Engineering (2023-2027)
- **New Ramses College**– IGCSE (2020-2023)
- **GPA: 3.79**
- **Coursework:** Introduction to Computer Programming, introduction Login Design , Data Structures and Problem Solving, Introduction to Artificial , Computer Organization Intelligence, Advanced Algorithms and Complexity

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Typescript, C++, Java, VHDL, SQL, Motoko
- **Databases:** Microsoft SQL server, PostgreSQL
- **Web Technologies & Frameworks:** Node.js, Express.js, React.js, REST APIs
- **Productivity and Multimedia Tools:** Microsoft Word, PowerPoint, Excel, Adobe Premiere Pro, Blender

SOFT SKILLS

- Problem-Solving & Critical Thinking
- Team Collaboration & Communication
- Adaptability & Continuous Learning
- Working and Time management Under Pressure

PROJECTS

- **Value Prediction on Non-Linear Data**: Applied feature engineering with python on a Kaggle set and used SVR to train the Machine Learning model to produce accurate results. Used Sckitlearn Library.
- **Investment and Budget Advisor**: Developed a Python-based financial advisor that evaluates the relative investments options based on market data. Utilized scikit-learn to implement a machine learning model and integrated a speech-to-text system feature for entering budgeting details.
- **A* program for path finding in a maze**: Implemented the A* algorithm using Python to find the shortest path in a maze with obstacles. Visualization was done with pygame.

- **Ecommerce Desktop Application:** Designed a desktop app where it offers functionalities to the admins for managing the system and allows customers to search for and buy products. Used java and SceneBuilder.
- **MIPS Simulator:** Implemented a fully functional MIPS processor Simulator with VHDL and tested it using a set of instructions. Used Xilinx ISE
- **Seven Segments Controller:** Made a program that runs on Atmega32 to control the displays based on button clicks. Written in C, Used Proteus for simulation.
- **Blog Web App with Custom API:** Created a full-stack blog application with CRUD operations and a RESTful API. Built using Node.js, Express.js, and JavaScript for the backend.
- **Secrets Web App:** Created a full-stack web application that authenticates users via Google-OAuth and handled users data using PostgreSQL database.
- **Orrery – Solar System Simulation:** Developed a 3D simulation of the solar system, including planets, moons, and asteroids. Used Three.js for rendering, JavaScript for logic, and Blender for 3D models.
- **Sorting Visualizer Desktop Application:** Designed a desktop app that provides animations for different sorting algorithms. Used C++ and SFML library.
- **Food Ordering System:** Used C# to create a desktop app that allowed CRUD operations and used Microsoft SQL Server for the database.
- **Tiny Language Compiler:** Implemented the lexical and syntax analysis phases for Tiny Language using C#.

Experience and Freelancing

- **PlayStation Store Management System:** Worked on developing the backend for a python Django application for store management.

CERTIFICATIONS & TRAINING

- **Full-Stack Web Development Bootcamp** – Udemy
- **Embedded Systems Training Edges Academy**– University Training Program
- **Currently Enrolled in DEPI Data Science Track**– DEPI
- **Best Engineering Innovation For Youths Award**– Intel ISEF