Youssef Agiza

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EDUCATION

The American University in Cairo (AUC) — Cairo, Egypt
Bachelor of Science, Computer Science; GPA: 3.945/4.0 — *September 2019 - Expected to graduate by 2023*
Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Machine Learning, Software Engineering, Computer Architecture*

El Salam School — Al Qalyoubia, Egypt
Thanaweya Amma — *September 2005 - July 2019*

EXPERIENCE

Fosha App — remote
NodeJS Backend Freelancer — *July 2022 - December 2022*
- Built the backend of a mobile application to manage events and services provided by vendors
- Created a flexible database design to accommodate different types of services and their recurrence patterns.

Benya Systems — on-site
Computer Vision Intern — *June 2022 - August 2022*
- Learnt Basics of Computer Vision and utilized OpenCV to implement road lane detection.
- Built a camera surveillance system using computer vision that is used to record attendance of the company employees.

American University in Cairo — on-site
Undergraduate Teaching Assistant — *Feb 2022 - June 2022*
- Assisted in Computer Architecture Lab and Graph theory Course.
- Arranged office hours and provided guidance to students.

PROJECTS

- **Medical Health Record Systems using Scrum methodology**: (MySQL, Node JS, Prisma, Flutter)
  - Applied Scrum methodology to organize and build the project.
  - Designed the back-end using NodeJs and Prisma using Model-View-Controller structure.

- **Arabic product reviews sentiment analyzer using Neural Network**: (Python, Flask)
  - Performed literature review comparing multiple datasets and ML models to decide the best model and dataset for the project.
  - Implemented Neural Network model from scratch with an Adam Optimizer and trained it on Arabic dataset.
  - Implemented a web app using Flask for the end-users and used their feedback in active learning

- **Automated academic web advisor(Advizly)**: (ReactJs, NodeJs, Express, MySql, Python)
  - Researched other automated academic advising systems and synthesized the information to design the project.
  - Programmed a web-crawler in python to populate the database with the needed data.
  - Designed the database, built the backend using RESTful api's, and implemented the frontend.
  - Deployed the website on Digital Ocean to serve students in real life.

EXTRACURRICULAR ACTIVITIES

Student Union, Chairperson, Student Union — AUC, Cairo, Egypt
Lead and supervised multiple teams and their general managers. The general managers — *Sept 2022 - present*
provided trainings in various fields, and assigned tasks to members to implement features
to be used by the university students.

Student Union Mobile Application, General Manager, Student Union — AUC, Cairo, Egypt
Maintained a mobile application used by over 6000 users. Lead and — *Feb 2020 - June 2022*
trained members to use React Native to develop new features in the application.
Contributed to building the backend using NodeJs and AWS lambda functions.

Competitive Programming Winter Camp — Cairo, Egypt
Practiced different competitive programming skills on different online judges — *Jan 2022 - Feb 2022*

CERTIFICATES

Leadership Certificate AUC, Cairo, Egypt
- *Attended equivalent of 30 hours of class time about leadership.* *Feb 2022 - June 2022*
  Practiced and discussed different leadership styles.

SKILLS SUMMARY

- **Programming Languages**: C/C++, Python, JavaScript, SQL, HTML/CSS, Verilog, RISC-V
- **Frameworks/Libraries**: NextJs, NodeJS, Express, ReactJs, Bootstrap, REST, React Native, Expo, STL,
- **Tools/Skills**: PostgreSQL, MySQL, Git, Microsoft Office, AWS, Digital Ocean, Nginx

Reference Furnished Upon Request