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 Part-time — *Jan 2023 - Feb 2023*
  - 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 provided trainings in various fields, and assigned tasks to members to implement features to be used by the university students. — *Sept 2022 - present*

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

- **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