

# 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.
- Product reviews sentiment analysis 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 the 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 Mobile Application, Chairperson, Student Union** AUC, Cairo, Egypt  
*Lead and supervised multiple teams and their general managers who provided training and 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. Practiced and discussed different leadership styles.* Feb 2022 - June 2022

## SKILLS SUMMARY

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- **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**