

# Taha Ahmed

☎ +20 12 898 45 197 | @ taha.m8875@gmail.com | 🔗 LinkedIn | 🐙 GitHub | 📍 Alexandria, Egypt

## OBJECTIVE

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Hi, I'm Taha Ahmed, a software engineering enthusiast. Seeking an internship to utilize my background and gain more practical experience.

## EDUCATION

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**Faculty of Engineering, Alexandria University**

*B.Sc. in Electronics and Communication Engineering*

Alexandria, Egypt

*Sep 2019 – Jun 2024 (Expected)*

## PROJECTS

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**GitHub repositories clone** | [GitHub](#) | [Deployed on Vercel](#)

React, Redux

- I cloned the repositories tab in GitHub, type any username and see his repositories.
- My project now is a part of the [clone war](#) repository.

**ECE24 Whatsapp bot** | [GitHub](#) | [YouTube](#)

Node, Whatsapp web js, telegraf

- A Whatsapp bot that can be used to forward messages from ECE24 telegram channel to ECE24 Whatsapp community, the goal is to automate the process of communicating with the students on different platforms via one click.
- The bot is written in Node.js and uses the Telegraf library to listen to the messages and send the to Whatsapp with the Whatsapp web js library. The bot is currently hosted on glitch and serves our class.

**L<sup>A</sup>T<sub>E</sub>X to Image Bot** | [GitHub](#)

Go

- Telegram bot built using Go programming language that allows users to quickly convert L<sup>A</sup>T<sub>E</sub>X code into images.
- The bot is written in Go and uses MiKTeX and ImageMagick.

**Blog app - a front end project** | [GitHub](#) | [Deployed on Vercel](#)

React, Redux

- A blog app with CRUD operation with React, Redux and Bootstrap.

**Django blog** | [GitHub](#)

Django

- I created a fully functioning blog with Django.
- Features: register a new account, login to your account, account info can be updated, request an email to reset password if forgotten, create, read, update, and delete post, home page with all posts orders by date posted, user posts page with all his posts.

**Flask blog** | [GitHub](#)

Flask

- The same blog I created but in Flask. Instead of using a battery included framework I tried a simpler one to see the details.

**Numerical Methods Project with Sage** | [GitHub](#)

Python, SageMath

- This project implements the following numerical methods:

the Jacobi method, the Newton-Raphson method, trapezoidal method, bisection method, Simpson's 1/3 rule, the trapezoidal method, Euler's method, Heun's method, linear regression with : power model, exponential model, growth-rate model.

These methods are implemented using SageMath, written and run via Jupyter notebooks.

## PROBLEM SOLVING

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### Problem solving | [GitHub](#)

- A collection of my solutions to various programming problems on codeforces, in C++, Python, Java, Javascript.

## MY TUTORIALS

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I created one youtube tutorial, and many written tutorials on Github.

### SageMath for Beginners: A Quickstart Guide in 60 Minutes | In Arabic | [Youtube](#)

- One of the my favourite softwares and one of the underrated ones, since no Arabic content explains SageMath, I made this tutorial to add a small support to the Arabic learner.

### Cheat Sheets and Summaries | [GitHub](#)

- Whenever I learn something, I try to summarize it.

## SKILLS

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**Programming:** JavaScript, Python, Java, Go

**Technologies:** React, Redux, Node, Django, Flask

**Languages:** Arabic (Native), English (Fluent)

## ACTIVITIES

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I work as representative for my class, we handle the schedule and communicate with the professors and teaching assistants, I am also responsible for shooting the lectures and sections, editing and uploading to YouTube.

## FREELANCING

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I used  $\text{\LaTeX}$  and SageMath to write mathematics and physics books and notes for mathematics and physics teachers.