

Muhammad Assawalhy

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EDUCATION

Zagazig University

Bachelor of Electrical Engineering - Computer and Systems Engineering track

Zagazig, Egypt

Sep 2019 – Jul 2024

- Achieved 1st place among university teams in the ECPC competitions for three consecutive years

EXPERIENCE

Software Engineer

SciCave

Aug 2023 – Jun 2024

Cairo, Egypt

- Built web apps using TypeScript, React.js, Next.js, Laravel, PHP, and other web technologies
- Tested the frontend using Cypress and CI/CD pipelines to automate quality checks and testing
- Managed deployment using Docker and cloud services like AWS EC2 machine
- Designed UI/UX using Figma and collaborated on requirements gathering

PROJECTS

Arabi.js | *JavaScript, PEG.js*

Oct 2020 – May 2021

- JavaScript Arabization based on Babel.js parser

Rasm | *JavaScript, HTML, Sass, Pugjs, PEG.js, Webpack, Gulp, Jest*

Feb 2020 – Present

- Graphing calculator to plot math functions, draw geometric shapes, and animate them

Da7ee7 Bots | *Python, Django, JavaScript, HTML, Bootstrap*

Apr 2022 – May 2023

- Dashboard built with Django to automate sending messages to multiple Telegram bots

ACHIEVEMENTS

ACPC Finalist

Qualified to the African and Arab Collegiate Programming Championship

2022, 2023, 2024

NASA Space Apps Challenge

My team Pyrogurarians got 3rd place and became a global nominee

Nov 2023

IEEEExtreme 17.0 Competition

My team was one of the top 15 teams out of 198 Egyptian teams

Oct 2023

EXTRA-CURRICULAR ACTIVITIES

Mentor and Instructor

ICPC Community at Zagazig University

Mar 2022 – Aug 2024

- Mentored multiple teams in the community and managed to leverage their algorithms and problem-solving skills
- Delivered weekly sessions, covering topics like greedy algorithms and C++ STL library
- Authored problems to be used in local or regional ICPC contests and tested other problems written by colleagues

IT Committee Head

ZagEng Team

Nov 2021 – Jun 2023

- Directed the committee to build 13+ Telegram bots that help students get their learning materials
- Automated repeated tasks by building a dashboard using Django and integrating it with Make.com

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Bash, CSS, Sass, Python, PHP, SQL

Frameworks: ReactJS, NextJS, Tailwind CSS, Cypress, Django, Laravel

Developer Tools: Linux, Git, Docker, Kubernetes, Monorepos, AWS EC2, Figma

Other: OOP, Functional Programming, Databases, CI/CD Pipelines