Zeyad Elkholy

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SUMMARY

Motivated Computer Science student at Egypt-Japan University of Science and Technology with strong C++, Python, and Linux automation skills. Experienced in developing practical software tools and solving algorithmic problems on platforms like Codeforces. Passionate about building efficient systems and contributing to impactful tech projects. Looking for internship or junior developer opportunities to apply and grow technical skills.

EDUCATION

Egypt-Japan University of Science and Technology (E-JUST), — Alexandria, EG
Bachelor of Computer Science, Minor in Computer Science — *Oct 2024 – Aug 2028*

STEM Qena High-School — Qena, EG
Specialized in Science, Technology, Engineering…(STEM), Focused on Mathematics — *Oct 2021 – Aug 2024*

EXPERIENCE

STEM Project Developer — Oct 2021 – Aug 2024
Qena STEM School — *Qena, EG*

- Designed and prototyped a sustainable alternative building beam using cost-effective materials to address structural challenges.
- Developed a functional small-scale water purification station prototype to improve access to clean water in local communities.
- Engineered a reminder device for Alzheimer's patients using basic electronics and programmable logic to assist with daily tasks.
- Researched and built a prototype for energy generation by leveraging temperature differentials between hot and cold phases.

Software Developer & Problem Solver — July 2022 – Present
Personal & Academic Projects — *Alexandria, EG*

- C++ Problem Solving: Solved 66 medium/easy algorithmic problems in Codeforces, strengthening expertise in data structures and efficient code design.
- Linux & Automation: Streamlined workflows via Bash scripting over 2.5 years, automating repetitive tasks in Linux environments.
- Python Development: Built a GUI-based YouTube downloader (ZYTgui) with PyQt5, enabling multi-threaded downloads and format selection.
- Hospital Management System: Developing a Python app using OOP, Git, and modular design.

PROJECTS

Z-Youtube-Downloader , *Python, PyTube*

- A command-line YouTube video downloader using PyTube.
- Supports batch downloads and format selection.
- Written in Python with CLI-based controls.

ZYTgui , *Python, PyTube, PyQt5*

- A graphical front-end for PyTube, built using PyQt5
- Features a simple UI for selecting video quality and formats.
- Supports multi-threaded downloads for better performance.

TECHNICAL SKILLS

Languages: C/C++, Python, Bash
Frameworks: PyQt, Qt, TKinter
Developer Tools: Git, Linux, Shell scripting, VIM, VS Code
Languages Spoken: Arabic (Native), English (Professional Proficiency)