Mina Albert Saeed Hermina

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SUMMARY

A motivated computer science student specializing in IT, with a strong passion for GNU/Linux, networks, and operating systems. Enthusiastic about their evolution from inception to the present, I am eager to apply my knowledge in real-world projects. Seeking an internship in **Linux/Unix Systems Engineering or Programming** to contribute my skills while gaining hands-on experience.

EXTRACURRICULARS

IEEE Cairo University Student Branch   **March 2024 – June 2024**
Networks Instructor
- Contributing to the development of technical content for the committee sessions and instructing real sessions for network committee members

SKILLS & LANGUAGES

Technical skills & TOOLS:
- C, C++, Python, Java, OOP, and Data structures
- GNU/Linux, Bash, and docker
- Basic understanding of TCP/IP Protocols Suite
- Git, GitHub, vim, tmux

Languages:
- Arabic: Native proficiency
- English: Intermediate proficiency (B1)

PROJECTS

Arena Allocator   **February 2025 – March 2025**
- Implemented a custom single-header region-based memory allocator in C using **mmap**, following the **stb-style headers**.
- Designed an efficient memory management system with features including **page-aligned** allocations, and memory usage tracking.

imglib   **November 2024 -- January 2025**
- Developed a lightweight, portable C library for image manipulation on Unix-like systems.
- Followed the Suckless C coding style and wrote a portable Makefile, avoiding GNU-specific extensions.
- Implemented efficient pixel access using stride-based indexing for performance optimization.

Linux Kernel With lockdep   **April 2024**
- Configured and built the Linux kernel to enable lockdep module which helps in debugging deadlocks in kernel space, replacing the new custom kernel into my system and using it.

POSIX Compliant Shell Scripts Creation   **September 2023 - September 2024**
- Building POSIX-compliant shell scripts to automate daily tasks on my system like spinning up a virtual machine, unarchiving archive files and screen casting.

EDUCATION

Faculty of Computers and Artificial Intelligence, IT Department, Cairo university.   **October 2021 – Current**
- Bachelor's Degree in Information Technology

CERTIFICATES

- CCNA: Introduction to Networks   **July 2024 – August 2024**
- CCNA: Switching, Routing, and Wireless Essentials   **July 2024 – August 2024**