

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 Networks Instructor	March 2024 – June 2024
<ul style="list-style-type: none">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, and tmux

Languages:

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

PROJECTS

BigNum	April 2025 – June 2025
<ul style="list-style-type: none">Developed a C99 arbitrary-precision arithmetic library for cryptographic applications, with architecture-dependent 32/64-bit word representation using arean allocation for memory management.Designed a robust API interface by studying OpenSSL and libtommath libraries, and implemented core big number algorithms such as Euclidean division and modular inverse.	

Arena Allocator	February 2025 – March 2025
<ul style="list-style-type: none">Implemented a custom single-header thread safe 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
<ul style="list-style-type: none">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 robust error handling system inspired by ffmpeg and stride-based indexing for efficient pixel access.	

Linux Kernel With lockdep	April 2024
<ul style="list-style-type: none">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.	

EDUCATION

Faculty of Computers and Artificial Intelligence at Cairo university.	October 2021 - Current
<ul style="list-style-type: none">Bachelor's Degree in Information Technology	

CERTIFICATES

<ul style="list-style-type: none">CCNA: Introduction to Networks	July 2024 – August 2024
<ul style="list-style-type: none">CCNA: Switching, Routing, and Wireless Essentials	July 2024 – August 2024