

Salma Hossam Ahmed

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<https://github.com/Salma-Hossam1>

Profile

Computer science student with a strong foundation in software fundamentals and a passion for learning and building across different areas of tech.

Education

Faculty of Engineering, Computer and Control Systems Engineering Sept 2021 – Present
Department (CCSED), Mansoura University

- Grade : Excellent

Courses & Certifications

Embedded Systems

Completed several courses and diploma programs focused on Embedded Systems, gaining proficiency in C , its tricks , and Embedded C .That gave me good experience in understanding computers at a low level and how to work with memory and storage, and how the computer works in general.

Then I started to deal with a microcontroller (AVR) , it was a real experience in working with registers and reading the datasheet to write drivers for the MCU. I had implemented multiple hands-on projects throughout this period.

System Programming Course

Covered Linux commands, file system hierarchy, process management, virtualization, and more. Gained practical experience by building a custom shell using system calls.

HCIA - Datacom Certification (Huawei ICT Talent Program)

Earned a certification in Huawei's Datacom track, gaining deeper understanding in networking and hands-on experience through projects using Huawei's eNSP simulation tool

Cloud Essentials Summer Training Program — National Telecommunication Institute (NTI) ITIDA — Completed Aug 2025

- 90 hours technical (hands-on labs) in AWS & Huawei Cloud: cloud/virtualization fundamentals, network virtualization, software-defined storage, Huawei HCCDA – Tech Essentials
- Practical work deploying and configuring cloud components (IAM, EC2, S3, EBS, RDS, DynamoDB, virtual networks, storage systems)
- 30 hours soft skills: workplace readiness, collaboration, professional development
- Achieved final score: 99%
- Earned AWS Academy Cloud Foundations certification (20 hours)

Projects

My Simple Shell

<https://github.com/Salma-Hossam1/Linux-Tasks>

- I have implemented many simple utilities in Linux such as cd , mv , cp , etc . I did that using system calls and C language .
- (The shells from simple to micro) : A progressive collection of Linux system programming exercises that led to building a personal shell project. The work was developed in multiple stages—starting with a basic shell and gradually expanding its features into a more advanced "micro shell." Each version added functionality like command parsing, process handling, and system call usage, reflecting a deep understanding of Linux internals.
- Tools Used : C, Linux, Bash, System Calls

Skills

Languages: C++, C, Java, Embedded-C, C# , css , Html , JavaScript

Operating Systems & System Programming: Linux, Shell scripting

Networking: Solid understanding of networking fundamentals

Volunteering

- Embedded Systems Head – BreakinPoint
- Embedded Systems Supervisor – BreakinPoint
- Embedded Systems Vice Head – IEEE Mansoura Chapter