

# Charbel Assaad

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"Everything passes." — Osamu Dazai, No Longer Human

## Summary

I am a self-taught computer specialist that is pursuing a CCE degree at the Lebanese University. My skills expands far and wide, ranging from programming to computer security to system administration, I simply like everything related to computers.

In my free time you'll often find me contributing to open source projects, playing around in my Homelab or hacking the planet.

## Work Experience

### Saoua

AI DEVELOPER

BDD iPark, Beirut

Oct. 2023 - Feb 2024

- Built specialized **LLM Agents** with integrations that performs specific tasks.
- Created **Restful APIs** for AI applications.
- Followed **Prompt Engineering** best practices to ensure high quality and predictable outputs from the LLM model.
- Developed and trained a **semantic segmentation** model to remove backgrounds.

### Saoua

DEVOPS ENGINEER / SYSTEM ADMINISTRATOR

BDD iPark, Beirut

Oct. 2023 - Feb 2024

- Designed and implemented cloud infrastructure on **Amazon AWS**
- Set up and maintained **Kubernetes** clusters and configured deployments and stateful sets to ensure maximum availability and optimal performance.
- Set up **Grafana** to monitor services and Kubernetes clusters using **Loki** and **Promtail**.
- Configured **Jenkins** for CI/CD to build, test, and deploy artifacts to Kubernetes.
- Used **Nexus** to store Built **Docker images**.
- Set up and administered **PostgreSQL** databases.
- Set up **Nginx** as a reverse proxy with SSL certificates (HTTPS)

## Education

### Lebanese University, Faculty of Engineering (Second branch - Roumieh)

Roumieh

COMPUTER AND COMMUNICATIONS ENGINEERING

Oct. 2021 - Present

### Central college jounieh

BACCALAUREATE IN GENERAL SCIENCES

jounieh

2020 - 2021

## Technical skills

### Programming

Github, Sololearn, Datacamp, Pluralsight.

- My latest project **Microgradv**, a scalar-valued autograd engine with a neural net library built on top of it Written in **V**.
- I have contributed to multiple open source projects, including **GNOME (implemented a protocol)**, **pywlrroots (implemented a protocol)** and **Gentoo (Maintained a package)**.
- I am fairly experienced in using **git** to rebase, merge and resolve conflicts to ensure healthy and usable repositories.
- **Java, swing**, implemented Conway's Game of Life to recreate a YouTube video, project **game-of-life-java**.
- **Python**, projects going back **3 years**, and contributions to many open source projects.
- **C++**, participated in the **NXP Cup** and programmed a micro controller to maneuver a car autonomously around a track.
- **C**, One of my biggest contribution to open source is in C, to **Mutter** GNOME's Wayland display server.

### Computer Security / Penetration Testing

HackTheBox, TryHackMe.

- **3 years** of experience, **hacking in controlled labs** and **solving CTF challenges**.
- Participated in the **CSCG 2020 earth(external)** competition, and ranked **#35/606**.
- Performed code and security audit on Saoua's deployed softwares, set up access control and firewall rules to reduce attack surface.
- Performed Pen-tests on LLM Agents to ensure they are safe and secure for production use.

### Linux System Administration / DevOps

- **3 years** of experience **daily-driving** and **experimenting/maintaining a Homelab**.
- Gained knowledge about networking, system permissions and Linux through self-hosting different kinds of softwares/services.
- Through my work at Saoua I got the opportunity to work with industry grade technologies and push my limits further by designing and deploying cloud infrastructure, perform updates with no downtime, create scalable deployments to handle the influx of users, perform regular system health checks and maintenance.

Skills

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Markup	LaTeX, ReStructuredText, Markdown, HTML
Programming	Java, Python, C, C++, C#, V, AWK, Bash, MSSQL
Frameworks / Libraries	LangChain, Svelte, Fastapi, Tensorflow, Pandas, Ncurses
Tools	Git, GitHub, GitLab, Vim/Neovim, PyCharm, VS Code
Security tools	Burpsuite, Metasploit, Kali Linux, Nmap, Wireshark, Ghidra, IDA
Languages	English, Arabic, French

Extracurricular Activity

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NXP Cup

PARTICIPANT

2023

- Ranked **#7/18** at the finals held **May 11 2023 in Romania**.
- Gained knowledge about line following algorithms for autonomous cars and programming in C++ for ARM architecture.

IEA

NXP CUP COACH

Lebanon

2023 - Present

- Coach and supervise new participants to ensure they fully understand the goal, tools and concepts required to compete in the competition.
- Help participants with any technical difficulties they might face.

Mechatronics club

NXP CUP COACH / BOARD MEMBER

Lebanese University

2022 - Present

- Provide for self development opportunities and workshops for club members.
- Coach and supervise new participants to ensure they fully understand the goal, tools and concepts required to compete in the competition.

GC LAU MUN

DELEGATE

jbeil

2019

- Acquired public speaking and leadership skills.
- Gained expertise in holding formal debates.