

## SUMMARY

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Experienced in creating and delivering highly available fault tolerant infrastructure that supports hundreds of thousands of users, has millions of records in the cloud and serves tens of millions of unique requests a day. As part of a high performing team, my goals are to contribute to the growth and success of our customers and partners through technical excellence, continuous improvement and best practices. Also, I have been an instructor in system and network administration for more than three years

## EDUCATION

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| 2021 | <b>Master's Degree in Computer Science, Higher School of Computer Science, SBA – Algeria</b><br><i>(Supervised by <u>Pr. Rahmoun Abdellatif</u>)</i>    |
| 2021 | <b>Engineering Degree (Computer Science), Higher School of Computer Science , SBA – Algeria</b><br><i>(Supervised by <u>Pr. Rahmoun Abdellatif</u>)</i> |

## CERTIFICATIONS

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| JUL 2019 | <b>RedHat Certified System Administrator</b><br>RHCSA                    |
| OCT 2019 | <b>Juniper Networks Certified Associate (Cloud)</b><br>JNCA              |
| FEB 2020 | <b>Cisco Certified Network Associate (Routing and Switching)</b><br>CCNA |

## WORK EXPERIENCE & PROJECTS

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| SEP – OCT 2019 | <b>Network Administration Internship</b><br><u>ICTTOWERS</u> – Sidi Bel Abess, Algeria <ul style="list-style-type: none"> <li>• Hands-on managing and configuring of multiple switches and routers.</li> <li>• Troubleshoot multiple routers and switches of various types.</li> </ul>  |
| MAR – SEP 2021 | <b>System Engineering internship</b><br>LABRI Research Center <u>ESI-SBA</u> & <u>URD-SE</u> internship – Sidi Bel Abbès, Algeria<br><u>Responsibilities</u> <ul style="list-style-type: none"> <li>• As a System Engineer, I developed and deployed a completely automated multi-layer infrastructure for detecting suspicious behavior in real time using Deep Learning.</li> <li>• I was in charge of designing the project infrastructure, after attending multiple review session with the client.</li> <li>• For project infrastructure, we used the Edge, Fog, and Cloud computing paradigms.</li> <li>• Worked in different phases of DevOps such as Design, Code, Build, Test and Monitor.</li> <li>• Developed automation frameworks for a variety of infrastructure components.</li> <li>• Troubleshoot, and maintain the main infrastructure throughout the project period.</li> </ul> <u>Tools &amp; Technologies</u> <ul style="list-style-type: none"> <li>• Languages : Python (Bash for scripting).</li> <li>• Scalability: Vagrant, Ansible, Packer, Docker, Kubernetes.</li> <li>• High Availability: Pacemaker, HAProxy, Keepalived for services and GlusterFS, NFS-Ganesha for file system server.</li> <li>• Messaging Tool : Kafka.</li> <li>• Monitoring Tool : Zabbix.</li> <li>• Other technologies : kickstart, KVM, Git, GitHub.</li> </ul> |

## OTHER PROJECTS

JUN 2018	<b>“Logiciel de gestion de Bibliotheque”</b> <i>Sidi Bel Abess</i>
JUN 2019	<b>“Logiciel de gestion personnel”</b> <i>Sidi Bel Abess</i>
JUN 2020	<b>“microservices infrastructure for surveillance cameras”</b> <i>Sidi Bel Abess</i>

## SKILLS

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PROGRAMMING	Python(numpy, manim, matplotlib, scripting...) Bash/shell(sed, awk, and general scripting) R, C, Java, GNU Octave, Elisp.
OS	<b>Linux Servers</b> (RedHat, CentOS, Ubuntu, Debian) <b>BSD servers</b> <b>Windows...</b>
SYS-ADMIN	<b>High Availability</b> (HAProxy, Keepalived, Pacemaker) <b>Security</b> (Standards Linux Permissions, ACL, SELinux) <b>Troubelshooting</b> <b>Network Services</b> (DNS, DHCP, NFS, SMB, iSCSI) <b>Storage</b> (GlusterFS, NFS-Ganesha) <b>Monitoring</b> (Zabbix, Grafana, Prometheus) <b>Authentication</b> (LDAP, Kerberos)
DEVOPS	<b>Anisble, Kubernetes, Docker, Vagrant, Git, GitHub, GitHub-Actions, Packer</b>
VIRTUALIZATION	<b>KVM &amp; QEMU, VirtualBox, Proxmox</b>
NETWORKING	<b>Cisco IOS, Routing &amp; Switching Protocols, GNS3</b>
DATABASES	<b>MySQL, MariaDB</b>
GRAPHIC DESIGN	<b>Inkscape, Gimp, Photoshop, Blender</b>

## PROFESSIONAL COURSES

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- (CCNP ROUTE) Implementing Cisco IP Routing (ICTTowers, Sidi bel Abess)
- (CCNP SWITCH) Implementing Cisco IP Switching (in ICTTowers, Sidi bel Abess)
- Cisco Networking & Security Fundamentals (in ICTTowers, Sidi bel Abess)
- Implementing Cisco IOS Network Security (IINS-CCNA Security) (in ICTTowers, Sidi bel Abess)

### COURSES






I Taught 80+ students on the basic of UNIX/Linux, System Administration, Network Administration, RHCSA & RHCE for 3 years

2018–2019	<b>RHCSA Courses– “RedHat Certified System Administrator”</b> <i>Higher School of of Computer Science – <a href="#">ESI-SBA</a></i>
2019–2020	<b>RHCSA Courses– “RedHat Certified System Administrator”</b> <i>Higher School of of Computer Science – <a href="#">ESI-SBA</a> – Ingeniums Club</i>
2020–2021	<b>RedHat Special Course(AlphaBit’s Cells Program)– “became a Linux expert”</b> <i>Higher School of of Computer Science – <a href="#">ESI-SBA</a> – AlphaBit Club</i>




### PRESENTATIONS

2015	<b>Design – “Your first steps into the world of Design”</b> <i>Yahiya Fares University(Medea)</i>
2017	<b>Design – “Introduction for Design World”</b> <i>Higher School of of Computer Science – <a href="#">ESI-SBA</a></i>
2017	<b>“Introduction for Gnu-Linux” –Basics of system installation &amp; daily handling of it</b>  <i>Yahiya Fares University(Medea)</i>
2018	<b>“Linux Installation Party”</b> <i>Yahiya Fares University(Medea)</i>

### PUBLIC CODE AND SCRIPTS

STARTED 2021	<b>3pnt14</b>  <i>GitHub account for my Youtube channel</i> I keep a separate GitHub account for my YouTube video code, the YouTube channel’s website, and so on.
STARTED 2020	<b>micro-emacs(emacs distrobution)</b>  <i>Minimal, Well Designed distribution of emacs.</i> An Emacs Distribution that i maintain, for developing,fully featured scientific papers editor, organizer, and many more...
STARTED 2020	<b>ZARS</b>  <i>Arch,Arch-based auto-ricing/config script</i> An Automation Script that i maintain, for auto ricing and Configurations of Any Arch based distrobution, aims on minimalisim, security, efficiency and beauty
STARTED 2021	<b>vagrant-cluster</b>  <i>a fully automated cluster of virtual machines</i> I developed my own configuration file for generating a completely automated cluster of virtual machines using vagrant as the provisioner and kvm as the hypervisor. You can provide everything you need for a virtual machine in this configuration file, including the number of CPU cores, RAM, virtual network interfaces of various types, multiple partitions, and so on.
STARTED 2021	<b>org-master</b>  <i>Emacs Distribution for scientific/thesis writing</i> I’m working on an Emacs distribution for scientific/thesis writing, with the purpose of creating a self-contained application that handles and simplifies the way we write academic papers.

### OTHER

- My [Emacs’s Configuration](#) 
- My build of the the suckless [simple terminal \(st\)](#)  with added homerow binds and small improvements.
- My build of the the suckless [dwm window manager \(dwm\)](#)  a well design, fully function distro of dwm.

## AWARDS

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- 🏆 **1st Place** (nationally) in Graphic Design category *Festival "Bahjah"*
- 🏆 MLH orgnized by Github & Microsoft *ESI-SBA "2019"*
- 🏆 **6th/30 Place** Coding Challenge *ESI-SBA "2019"*

## LANGUAGES

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Arabic(Native Language), French, English

## HOBBIES

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Philosophy (especially philosophy of science, epistemology and philosophy of religion), human evolution and prehistory, free (i.e. libre) software, survivalism, medieval thought.