

## **Experience**

### **Signal Regiment - Lebanese Armed Forces**

Beirut, Lebanon

#### **Officer Engineer**

May 2020 – Present

- Configured and managed network and security devices for the entire LAF network (switches, routers, cameras, network monitors, active directory).
- Installed and configured security systems in the network operation center (NOC) of the LAF.
- Migrated from a layer 2 WAN to a layer 3 WAN with MPLS and BGP routing protocols for a network including 90 sites across Lebanon and more than 500 devices.
- Performed software and hardware upgrades according to the LAF internal needs.

### **Candidate Select GmbH**

Remote

#### **Fullstack Web Developer**

Oct 2020 – Present

- Contributed to the API that is built to provide students / graduates with certificates that can be used to compare their performances on a per-subject / per-country basis.
- Developed security features like two-factor authentication using time-based OTP and hardware security keys.
- Developed and contributed to features that are used in internal systems like Flask Admin.
- Developed advanced filtering techniques in Flask Admin, along with the ability to save/load templates and having the ability to automatically email the filtered results through Mailchimp (instead of having to go manually to Mailchimp and import an audience / send emails).
- Developed from scratch different assessment center tests that test cognitive skills / attention span / spatial ability / personality.

### **Military Healthcare - Lebanese Armed Forces**

Beirut, Lebanon

#### **Officer Engineer**

May 2017 – May 2020

- Maintained Active Directory, DNS, DHCP, File Servers, Exchange Servers, DFS, high availability SQL servers for the military healthcare information system (800+ users and computers).
- Reorganized the hierarchy of the entire AD forest to account for different departments of the MHC and performed an entire change in the organizational structure while considering the latest security standards.
- Created scripts to automate and facilitate daily tasks such as backups and restore, disaster recovery scenarios, logging security events, network monitoring and anomaly detection, database locks and errors.
- Migrated tens of servers from Windows Server 2008 to Windows Server 2016, including Domain Controllers, MSSQL servers, web servers.
- Automated the migration of 1000+ computers from Windows 7 to Windows 10.
- Upgraded from old windows server firewalls to an entirely open source Firewall “OPN sense”.

## **Education**

### **Technical University of Munich**

Munich, Germany

M. Sc, Communications Engineering. GPA: 3.6/4

Oct 2015 - July 2018

Thesis : Capacity of the Linear Gaussian Channel Under a General p'th Moment Constraint on the Input

### **American University of Beirut**

Beirut, Lebanon

B.E, Computer and Communications Engineering. GPA: 3.5/4

Sep 2011 - June 2015

## **Publications**

K. Zeineddine, **H. Hammoud** and I. Abou-Faycal, “Optimal training for non-feedback adaptive modulation over Rayleigh fading channels,” Transactions on Emerging Telecommunications Technologies (ETT) In Press doi : 10.1002/ett.3069.

## **Skills & Interests**

**Technical:** Javascript, Typescript, PHP, C++, Java, Matlab, Python, Bash, Powershell, Keras, Kaldi.

**Language:** Arabic (Native), English (Full proficiency), French (Intermediate), German (Basic).