CHARBEL AL HELAYEL
COMPUTER ENGINEER

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Jdeideh, Lebanon

Objective	Computer Engineer seeking an entry-level job with an opportunity of professional challenges in the field of software engineering

Education

Lebanese American University *2013-May 2018*
- ➢ B.E. in Computer Engineering
- ➢ Multiple times honor list student
- ➢ <u>**Capstone Design Project:**</u>
  - o *Designed an RFID-based attendance system that uses the existing student ID to mark them as present, with an android app for the students to check their upcoming classes and the number of sessions they missed, and a desktop application for the instructors to monitor the attendance in their classes. Two cameras were used to check the number of students in the class. Project presented at the end of Spring 2018.*

Zahrat El Ihsan *1998-2013*
Lebanese Baccalaureate in Life Science
Multiple times honor list student

Experience

NAR- Beirut Digital District *July 2018-December 2018*
Software Engineer (First technical employee in the company)
- ➢ Built the Raven AI Android application from GUI to the data models following the Clean architecture with Java RX, and established the communication with the backend using SQL and noSQL
- ➢ Implemented the GUI to fit multiple screen sizes
- ➢ Performed the switch from SQL to noSQL using DynamoDB and then to AppSync on the Android client
- ➢ Established the communication between the Mavic Air drone and the Android application using the DJI SDK, and made the application compatible with the previous DJI drones
- ➢ Was responsible to lead the Android team and follow up with each person's task
- ➢ Built the unit test environment on Android Studio using Mockito, Junit and Robolectirc
- ➢ Configured Gradle to switch between multiple environments such as development, staging and production
- ➢ Integrated Crashlytics using Fabric on Android
- ➢ Performed some life cycle improvements on the Android application
- ➢ Managed the communication between the backend team and the Android team
- ➢ Managed multiple sprints on Jira
- ➢ Was responsible for the Quality Assurance of the application

Lebanese American University - Jbeil *November 2017-May 2018*
Undergraduate Research Assistant
- ➢ Worked on simulating and showing the advantages of UAV and buffer-aided FSO systems compared to conventional relay FSO systems, taking into account relay generated packets, and implemented four buffering strategies to optimize the queue sizes dedicated to the packets arriving from the source and to the packets generated from the relays

Axelerom - Jdeideh *January 2018-May 2018*
Part Time Regional IT Support
- ➢ Performed IT clientele support for the employees in the Middle East

BMB - Hazmieh *July 2017-August 2017*
Network Engineer Trainee
- ➢ Worked on site with the engineers to setup Fattal's new server room
- ➢ Studied CISCO's tools, routers with their different configurations
- ➢ Implemented multiple networking scenarios on CISCO's packet tracer and GNS3, such as IPSEC over GRE, NAT, PAT and others
- ➢ Secured the implemented networks using SHA algorithm

FOO – Sin el Fil   *July 2016-August 2016*
Software Engineer Intern

➢ Developed a live streaming app on Android, Android TV, WebOS TV and Tizen
➢ Worked on Android Obfuscation to prevent against decompilation and reverse engineering
➢ Prototyped a location based augmented reality application on Android and iOS
➢ Prototyped an Android sticker keyboard

Banque du Liban -Hamra   *July 2015-August 2015*
Intern

➢ Trained in the security and network department
➢ Worked in banking transactions and operations
➢ Worked on a Linux Red Hat Environment
➢ Updated the Red Hat Servers from Red Hat 6 to Red Hat 7
➢ Installed and managed an Oracle Database on Red Hat

Technology Overview

Languages
Programming: Java, Python
Hardware: VHDL, Verilog, Assembly, WinMips64 x89, Embedded C
Web: HTML, JavaScript, CSS, XML/JSON
Database: Firebase, Amazon Web Serviceos, noSQL, MySQL, Oracle
IDEs: Android Studio, Intellij, Eclipse
Version Control: GIT
Agile: Jira
Unit Test: Mockito, JUnit

Networking
Cisco Packet Tracer, Cisco IOS, GNS

Tools and Technologies
Raspberry Pi, Pic18 family, MATLAB, Slack, Oracle VirtualBox, WebOS, Tizen, Microsoft Office suite, Altera Quartus II, Altera Model Sim, CAD Simulate Tools

Languages

Fluent in English, French and Arabic
Proficient in Italian

Professional Development

Certificates,
CCNA I Routing and Switching (2016)

Standalone Courses
Android Essential Training (Lynda)
Ethical Hacking from Scratch (Udemy)

Memberships
➢ IEEE Student Branch Member   *2014-present*
  o Participated in multiple IEEE workshops and events
    ▪ LAU Network Seminar (2016)
    ▪ IEEE Grand Tech (2016)
➢ Facebook developers circle member   *2017-present*
  o Participated in the cyber security conference
➢ LAU Artificial Intelligence Club Member   *2016-2018*
➢ LAU Consulting Club Member   *2017-2018*
➢ .NET Club Member   *2016-2017*
➢ ACM Club Member   *2015-2017*
➢ Astronomy Club Member   *2014-2017*
  o Volunteered at several events
➢ Music Club Member   *2014-2015*

Activities
➢ Attended 3 Beirut AI quarterly meetups (2018)
➢ Attended BDL Accelerate (2017)

References

Nicolas Zaatar : 70 849057
Co-Founder and CTO of NAR