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EDUCATION

MS in Computer Science
American University of Beirut

2016 — Present

BS in Computer Science
American University of Beirut

2012 — 2016

WORK EXPERIENCE

Institute for War & Peace
Reporting
Software Developer/Content Creator
Description of Services/Scope of Work:

July 2014 — Jan 2015

Coordinating and contributing to the development of digital security applications
Keeping up to date with international developments in the field of digital security
Monitoring of current developments related to digital security in the Arab world
Preparing of training material on digital security
Training journalists and activists on the subject of digital security
Writing of digital security related articles in English or Arabic
Supplying advice to journalists and activists in the field of digital security
Managing and operating secure web services
Installing, maintaining and operating server applications
Analyzing digital threats (virus attacks, hacks, etc) and testing apps
Research on Digital Security

interactivelife
Software Engineer

August 2015 — Jan 2017

Working with the core team when interactivelife was a startup, my tasks were highly versatile. I can best summarize them by breaking them down into the following categories:

Software Engineer :

I worked on the android platform side, building a highly customizable SDK that enables the build of various different apks with no time, coupled with automated scripts that creates/updates all the different apps that make use of it. Complex apps can extend behavior and customize the UI by attaching plugins or extending SDK modules. Customizations are registered in the SDK using dependency-injection, annotation processing and the builtin Manifest Merger. The SDK provided generic implementations of chat, live-streaming, billing, triggering, push-notifications, server communication and generic animations. I also participated in the design and development of a dynamic schema generating server for dynamically created new apps and was responsible for maintaining all of the android apps.

Sysadmin:

I helped maintain , configure and deploy the servers of interactivelife. During these tasks I had to deal with letsencrypt , NFS , ec2 instances, load balancers, wrk , wowza streaming engine, git bare, openfire, postgresSQL ...

Non-technical:

I met with clients to discuss business ideas and requirements and worked closely with management to provide insight on development decisions that fit the client requirements best.

I transformed business ideas and requirements into viable code while integrating work between different local and remote members of the team.

I also helped interview and recruit developers into the company.

During my work, I was assigned the position mobile team manager.

PROJECTS

Most of these projects can be found on my Github account.

- Simulation of a packet traveling inside a network written in c++ using Omnet++ framework.
- A basic Social Network where you can share pictures, send personal messages and get notifications. It was written in a typical lamp environment and everything was done manually.
- Tutor finder website written in Python flask, where students/tutors can schedule tutoring sessions.
- A basic Vehicle detection algorithm written in processing that counts cars, it was part of a bigger project to enhance traffic lights performance.
- Nasty blocker is an android application that blocks phone numbers by answering the incoming calls and hanging out really fast, making the caller loose money.
- CyberArabs is a cross platform app written in Html5 and Javascript that uses Cordova, the app is just an rss parser with push notifications and offline storage. The app was released on android google play.

INTERESTS

- Penetration testing and security
- Android mobile development
- Web development
- Software engineering
- Parallel computing