ALIREZA HAFEZ

M. Sc. Computer Software Engineering Student

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https://github.com/AlirezaHafez



WORK EXPERIENCE

Lead Developer and Project Manager Concept Co.

February 2016 - December 2017 Tehran

- Designed and developed Online Parking Reservation System and offline taxi-meter based on GPS, GMS Location API, accelerometer and taxi driver behaviors to avoid satellite locking errors in calculations
- Designed and developed Real-Time tracking and recording solutions for TAP30 by Data Base Improvement Solutions such as Load Balancing SNAPP

Penetration Tester and Security Consultant Shiraz University ICTC

May 2014 - December 2015

♀ Shiraz

- Exposed architectural flaws in the university's Infrastructures such as exposing servers to the internet that are supposed to be in the internal network
- Developed new tools for SQLi, GPU accelerated brute-forcing, wifi jamming in order to expose the softwares' weaknesses

Lead Developer and Designer

Coffee MIPS

- Developed a design that unlike the NACH-OS, this application is a full Java-based MIPS machine with ram, OS, assembler, and one step execution
- Developed the UI, and the architectural design from scratch using Java in order to test and understand the details of the processes in CPU

Lead Developer

Shiraz University

- Developed an algorithm for keywords similarities between non-Persian words and Persian words based on fuzzy likelihood with python
- The program developed was capable of detecting likelihood in any other languages without relying on context and knowledge about the second language while using minimal resources

EDUCATION

Computer Software Engineering, M.Sc.

University of Alberta

Septemberl 2017 - May 2019

Computer Software Engineering, B.Sc.

Shiraz University

September 2011 - June 2016

TECHNICAL SKILLS

Languages

Proficient in C, C++, CUDA,x86 Assembly, ARM Assembly, Java, Android, .NET, JavaScript, Node.Js, PHP, HTML, CSS, BASH, Python 2, Unity, CryEngine (Basic), and Unreal Engine (Basic)

Security Topics

Proficient in Designing and Implementing Network Protocols, Socket Programming, secure Programming in PHP, Java and Node.js, software penetration testing (web-based, Desktop), Cracking passwrds, Exploiting, Malware Development (C/C++, and Delphi) and Software Analysis (OllyDbg, and Sandboxie)

Databases

Proficient in MySQL, Postgres, PostGIS, Oracle, Access, DB2, Redis, and MongoDB

Operating System

Proficient in UNIX (Free BSD), Linux (Including LFS), and Windows

Technologies and Frameworks
 Proficient in Sails.js, Express.js,
 Sequelize, TypeScript, Ember.js, Spring,
 Laravel 5, Yii, JSF, JSP, Spark (Based On Jetty), Jetty, Netty, Django, Swing, JavaFX,

Ionic, Socket.io, Nginx, and HAProxy