Mohammad SIAVASHI

PERSONAL DATA

PLACE AND DATE OF BIRTH:	Ilam, Iran | 6th April 1996
ADDRESS:	School of Electrical and Computer Engineering Shiraz University, Shiraz, Iran
PHONE:	+98 918 340 6229
EMAIL:	mohammad.siav@hotmail.com
GITHUB:	github.com/msiavashi

WORK EXPERIENCE

April 2018
AUGUST 2018 | Python Developer at ERTEBAT GOSTAR SOBAT (EGS) Tehran, Iran

2017 - 2018 | Member of SHIRAZ UNIVERSITY BUSINESS INTELLIGENCE (BI) project team
Worked as Java Spring Developer in Shiraz University Business intelligence (BI) project. The project is still in development phase.

2016 - 2017 | ANDROID Developer at IRANIAN SYSTEM ARA, Tehran, Iran
Worked as an ANDROID developer in Iranian System Ara. The project released for inter-company usages.

2016 - 2017 | Security Expert at DADE PARDAZ SHARGH (DPE), Tehran, Iran
Security researcher and c++ security software developer
Malicious software and web attacks are becoming more and more threatening every day, so we have been studying threats scenarios and analyze malware to develop a more a secure environment to be deployed in Banks systems to protect users.

2008 - 2012 | Co-Founder of PERSIAN GAMERS FORUM AND MAGAZINE
Co-Founder of the professional PGF games news agency, forum, market, and magazine. The magazine was the 1st professional e-magazine about video games in Iran. The site in no longer available.

EDUCATION

2014 - PRESENT | **B.Sc** in COMPUTER ENGINEERING, **Shiraz University**, Shiraz, Iran
2010 - 2014 | **Diploma** in PHYSICS AND MATHEMATICS, **Mottahari high school**, Ilam, Iran

Selected Projects

2014 | **Forth Language Interpreter**
Python
Educational FORTH language interpreter is written as the first project in Python. The project is available on GitHub.

2014 | **Rack OS**
ANCI C
Educational operating system is written in ANSI C, including MIPS Assembly Compiler also written purely in ANSI C. The project is available on GitHub.

2015 | **Operating System & Drivers**
x86 Assembly
Operating System with sound, keyboard and mouse drivers implemented purely in X86 Assembly with a simple calculator and piano application installed. The project is available on GitHub.

2016 | **Version Control**
Java + JavaFX
Client/Server version control desktop application using java and javafx.

2016 | **Shiraz University Self-Service Reservation Hybrid Mobile Application**
React Native
Self-Service reservation mobile application for shiraz university for both IOS and ANDROID devices. the applications are not available now.

2017 | **New Algorithm for Perfectly-Secure Multiparty Computation based on BGW (Ben-Or, Goldwasser and Widgerson) Protocol**
Python
In the setting of secure multiparty computation, a set of n parties with private inputs wish to jointly compute some functionality of their inputs. the context of this project is that each party can resolve a polynomial without knowing each other input hence decrypt messages. the project is available on GitHub.

2017 | **Optical Marker Recognition (OMR) System with Statistical Data Analysis System for INME Institution, Tehran, Iran**
Python + openCV
Developed and deployed high accuracy OMR system to scan multiple choice exams with statistical data analysis system to produce high accuracy result and guidance for each individual. The institution was holding university entrance exams for medical students.

2017 | **DES Encryption on FPGA (SPARTAN 6)**
Verilog
DES encryption/decryption implemented on Xilinx Spartan 6 FPGA. The project is available on GitHub.

2018 | **E-Commerce Platform**
Python + Flask
Fully featured e-commerce platform written in python & flask for EGS company, Tehran, Iran.

2018 | **Unibid Auction Platform**
Python + Bootstrap + Vue.js
An auction platoform written in Python, Bootstrap, Vue.js and Socket.io

2018 | **Vesta E-School Platform (fa / en)**
Web & Mobile Ecosystem
Vesta is a country-first E-Education platform that has been released as both Mobile & Web applications and has been used by wide range of educational institutions including schools since release.

Conference Presentation

"An algorithm to assess t-signature," The 3rd Seminar on Reliability Theory and its Applications, Department of Statistics. Ferdowsi University of Mashhad, Mashhad, Iran, May 2017.

Conference Proceedings

"An algorithm to assess t-signature," With S. Zarezade in Proceedings of Reliability Theory and its Applications Conference, Ferdowsi University of Mashhad, Mashhad, Iran, May 2017.

Teaching Assistantships

Fall 2018	**Principle of Programming (C Language)** *Dr. Ali Hamze*
Spring 2018	**Advanced Programming (Java & Software Design)** *Dr. Ali Hamze*
Spring 2018	**Computer Network Lab** *Dr. Koorush Ziarati*
Fall 2017	**Advanced Programming (Java & Software Design)** *Dr. Ali Hamze*

Awards & Honors

2011	Ranked 2nd in province in the 2nd English Conference of Ilam, Ilam, Iran.
2014	Selected as 1st Best Python Project Among all Course Students.
2015	Ranked 1st Student in Principle of Programming Course with 100% Score.
2015	Selected as 1st Best Project in Principle of Programming Course.
2015-2016	Selected as Member of Computer Department Science Forum at Shiraz University

Languages

Persian:	Mothertongue
English:	Full professional proficiency
Arabic:	Native proficiency
Kurdish:	Mothertongue

Skills

1. Python 2 & 3
   - Flask
   - Django
   - OpenCV
   - SQLAlchemy
2. Java EE
   - JavaFX
   - Spring boot

- Hibernate
- jetty
- netty
- apache tomcat

3. C
  - C99
  - C89

4. C++

5. C#
  - WPF
  - WinForms
  - Linq

6. Android Development

7. Assembly
  - x86
  - MIPS

8. Javascript
  - Node.js
  - React.js
  - React Native
  - Vue.js
  - Knockout.js
  - Angular.js
  - Angular material
  - mongoose
  - express.js

9. Ruby
  - Ruby on Rails

10. PHP
  - Laravel

11. Hardware
  - micro-controller (AVR + ARM Cortex m3 + Arduino)
  - FPGA + HDL Design Techniques (HW/SW Co-design, CORDIC, Piplining, ...)

12. web development
  - javascript + frameworks
  - css 3
  - html 5

13. Unity Game Engine
    - c#
14. Augmented Reality
    - Vuforia + Unity
    - Wikitude + Unity
    - ARToolkit + Unity
    - EasyAR + Unity
    - Maxst + Unity
15. Database-related
    - SQL
    - ORM (object relational mapper)
    - ODM (object document mapper)
    - MySQL
    - MongoDB
    - PostgreSQL
    - SQLite
    - Redis
16. Scientific/Documentation Tools
    - Matlab
    - LaTeX
17. Version Control
    - Git
    - Mercurial
18. Penetration Testing & reverse engineering
    - network
    - web application
    - android application
    - desktop application
19. UML
20. ERD
21. OOP Design Patterns (Gang of Four)

INTERESTS AND ACTIVITIES

Technology, Programming
Poem, Psychoanalysis, Reading
Swimming, Travelling