Sepehr Sabour

Computer Science Research Assistant - General CV

Contact Information

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Education

2018-Current   **Visitin Student** Passau University

Take some graduated courses:
- Advance Topics in Data Science
- Advanced IT Security
- Dependable Distributed Systems
- Advanced English for IT Students

2017-Current   **Research Assistant** Amirkabir University of Technology

My research is on Fog/Edge Computing under supervision of Dr. Hossein Pedram & Dr. Mehdi Rasti in Innovative Methods on Computer Circuits and Architecture lab.

2014–2017   **Bachelor of Computer Engineering (IT)** Amirkabir University of Technology

Overall GPA: 16.2/20	Total 140 Units
Selected GPA: 18.77/20	14 Units

Principles of Computer & Prog., Advanced Computer Programming, Data Struct. & Algorithms, Logic Circuits, Fundamentals of Management, Computer Arch., Design of Algorithms, Managements & Control of Information Technology Projects, Operating Sys. Design, Software Eng., Computer Networks (I & II), Research Method & Report Writings, Multimedia Systems

2008-2014   **High School Diploma in Mathematics and Physics:** Kamal High school, Tehran

GPA: 18.5/20.0

Research Interests

Edge/Fog Computing, Internet of Things, Distributed Systems

Work Experience

2016–2018   **Full-Stack Developer:** Adanic

Adanic is a company specialized in banking solutions and softwares. I develop Android apps and web back-ends and front-end. More information about Adanic can be found at: http://www.adanic.ir

2015–2016   **Co-founder and Senior Software Developer:** Fandogh Software Group

Fandogh software group was set up by my friends and I in 2014 summer.We applied to the accelerator of Amirkabir University and were accepted. If I want to name some of my projects in fandogh, I should mention Tikio startup, Baziness startup and chavosh mobile application. I have had experience of developing mobile apps with react native since I started Chavosh project. you can visit the web site of fandogh here : www.fandogh.org

2014–2016 **Network Administrator:** Computer Engineering and IT Department, Amirkabir University of Technology

I was CEIT Department's Network Administrator for about two years.

2014 **Junior Software Developer:** Rapna (Rayan Pardazan Nikro Emertat)

Actually I have started professional programming since I started working in Rapna. At first summer of univesity I started android developing in rapna company. My first project has been shahrgard rasht.

Research Projects

GoLang, NodeJs **Amirkabir University IoT Platform:** Amirkabir Scalable IoT Platform (ASITP) has been designed and developed by Amirkabir University IoT Group. This project is a Docker-based platform that used in IoT middleware layer. Currently, a government company is using the platform for smart agriculture applications. The platform has 4 layers: Main Backend, App Backend, App frontend and container Orchestration. The main future of the platform is supporting enormous size and heterogeneous devices.

GoLang,Python **Lights:** Lights is a software that simulates a thing behavior in an IoT system. It was developed as part of my B.Sc. Thesis.

Academic Projects

Python **Artificial Intelligence:** Implementation of an intelligent agent in Pac-Man AI competition in AUT.

PHP,MySQL **Principles of Database Design:** Design & implementation of an online market database .

JS,MongoDB **Principles of Database Design:** Design & implementation of an IoT platform database.

Magento **Electronic Commerce:** Design & implementation of an online perfume store.

OpenSSL **Information & Communication Security:** Simulation of several encryption algorithms.

Laravel, PHP, JS, HTML **Internet Engineering:** Implementation of a mail server site using web programming languages.

C **Operating Sys. Design:** Implementation of process migration on xv6 OS.

Verilog **Computer Architecture:** Simulating cache memory.

C++ **Data Structure & Algorithms:** Design & Implementation of Huffman compression using BST data structure.

Java **Advanced Programming:** Implementation of a simple strategic game.

C **Principles of Computer & Programming:** I mplementation of a simple compiler.

Work Projects

Android Application, Website, Server **Kilid App:** The project was designed as banking payment management application for legal customers. In this app, the legal customers (e.g. Companies and Government departments) can create payment request and pay it. This application has been used by Ayandeh Bank and also it will use by Parsian Bank and Shahr Bank since summer 2018.
website: key.ba24.ir
android app: https://play.google.com/store/apps/details?id=ir.ba24.key

Mobile Application	**Chavosh App:** The project was designed as official application of Amirkabir univesity of technology. My contribution was in writing the mobile application. Used nodeJS for mobile client back-end on the react native framework, Json for saving data ,html and CSS property flex for writing responsive mobile client front-end for all platforms and mobix for data architecture.
Android Application	**Guilan University Application:** The project was designed as official application of Guilan Univesity. My contribution was in writing the mobile application. Used java for mobile client back-end, Json for saving data ,Retrofit library for http requests and Picasso library for image loading management.
Android Application	**Shahrgard Rasht Application:** The project was designed as official application of Municipality of Guilan. My contribution was in writing the mobile application. Used java for mobile client back-end and SQLite for database.
Android Application	**Baziness:** An application for save and interact loyal costumers to your business. My contribution was in writing the mobile application. Used java for mobile client back-end ,Retrofit library for http requests and Json for saving data.
Android Application	**tikio:** The project was designed as a ticket selling website and mobile application. My contribution was in writing the mobile application. Used java for mobile client back-end , Retrofit library for http requests and Json for saving data. www.tikio.io

Teaching Experience

Spring 2018	Advanced Programming (Java) Lab Instructor (selected as top 3 lab instructors of faculty)
Spring 2018	Computer Networks TA
Fall 2017	Data Structures TA
Spring 2017	Research Method & Report Writings TA

Technical Skills

Languages Used
Java, Python, JavaScript, Golang
PHP, C, C++, HTML, CSS

Technologies
MongoDB, SQLite, NodeJS, React, Android, ES6
Mobix, React-native, Laravel, Redux

Software Packages
Wordpress, Linux, VIM, GIT, LATEX

Extra-curricular activities

SSC 2015-2016	Elected as the President of Students Scientific Chapter, CEIT Department, Amirkabir University of Technology (Tehran Polytechnic).
Linux Festival 2016	Executive Director of the 8th Amirkabir Linux Festival.
AUT ICPC 2016	Executive Director of the 15th Amirkabir International Collegiate Programming Contest, jointly held with KTH - Royal Institute of Technology & Jagiellonian University.
AUT TEDx 2016	Executive Team Member of the Amirkabir University TEDx.

AUT SW 2015	Executive Team Member of the AUT Startup Weekend.

References

Dr. Bahador Bakhshi	Assistant Professor, CEIT Department, Amirkabir University of Technology, bakhshi@aut.ac.ir
Dr. Masoud Sabaei	Associate Professor, CEIT Department, Amirkabir University of Technology, sabaei@aut.ac.ir.
Dr. Mehdi Rasti	Assistant Professor, CEIT Department, Amirkabir University of Technology, rasti@aut.ac.ir.
Ali Hajizade Moghadam	CEO, Adanic Afzar Company, alix@adanic.ir
Pooya Parsa	CTO, Fandogh Software Group, pi0@gmail.com