

Iman Tabrizian

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EDUCATION

AMIRKABIR UNIVERSITY

BS IN COMPUTER ENGINEERING

2014 - 2018 (Expected) | Tehran, Iran

Cum. GPA: 18.13 / 20 or 3.78 / 4.0

RESEARCH INTERESTS

Internet of Things
Cloud Orchestration
Software Defined Networking

LINKS

Github:// [Tabrizian](#)
LinkedIn:// [tabrizian](#)
StackOverflow:// [iman](#)

SKILLS

PROGRAMMING

Over 5000 lines:

Java • Python • Javascript

Android • Node.js

C • C++

VHDL • PHP

Over 1000 lines:

CSS • Assembly

Familiar:

MySQL • Verilog • MongoDB

FRAMEWORKS

ONOS • Docker • Swarm

Kaa IoT Platform

Lelylan IoT Platform •

OpenStack • Open vSwitch •

Mininet • Hapi.js • Vue.js

AWARDS

- top 10% in terms of cumulative G.P.A
- Offered direct admission to continue graduate studies
- Eligible to choose second major
- Ranked 1st among all entrance university students in 14th Amirkabir ACM-ICPC
- Top 0.007% in the national university entrance exam

RESEARCH & DEVELOPMENT EXPERIENCE

AUT IOT LABORATORY | RESEARCHER & DEVELOPER

Jan 2016 – Nov 2016 | Tehran, Iran

Development of an IoT platform with the ability to support logging, event triggering, scenario creation. It was based on the MQTT protocol for the reliable and bidirectional communication between IoT devices. Under supervision of **Prof. Bahador Bakhshi**

FARZAN FAN ANDISH FARDA | IOT RESEARCHER

Jun 2016 – Current | Tehran, Iran

- Development of a product for remote management of 250 welding robots for IKCO - leading car company in Iran. The solution that we proposed simplified the provisioning process extremely and helped them increase the number of welding robots in each production line.
- R&D for development of an IoT based assembly platform which eased the production of hard to assemble products. This platform used MQTT as the messaging broker and Node.js as the backend providing restful web services for things connecting to them.

PROJECTS

GENORCH | PYTHON

Development of a generic orchestration platform with the ability to auto scale the infrastructure of an application based on the user defined criteria. It is written extremely modular and currently supports OpenStack. It is an open source project you can view the source code:

github.com/genorch/orchestration It was tested on SAVI (testbed of University of Toronto).

COE | Go

Final year dissertation

Container Orchestrator Evaluator is the topic of my B.Sc thesis. In this project I'm supposed to run three different scenarios for three different container orchestration platforms. The container orchestrators that I'm going to evaluate is **Docker Swarm**, **Kubernetes** and **OpenStack**. The scenarios are:

- Compute Intensive
- Memory Intensive
- Network load Intensive

BAMBOO | NODE.JS

Bamboo is an IoT platform whose architecture is based on microservices. I was the architectural designer of bamboo and how components should be divided. It is using MQTT message broker for connectivity. You can find out more about it here.

NOVINNET | PHP

NovinNet is a platform for managing 250 welding controllers at IKCO - leading car company in Iran. It uses redis as a job queue and laravel to provide the web interface for users to manage it.

LANGUAGES

English: professional working proficiency (TOEFL iBT 107)
Persian: Native proficiency

IRAN METRO | ANDROID

A transportation application for Iran subway system. It currently has more than 20,000 active users. It was selected as the BESTS APP of THE WEEK by cafebazaar (Iranian Android Market) when it was launched.

MERGER | NODE.JS

This project was developed based on the request from the ICT of Amirkabir University of Technology. **Merger** fetches data from the different academic sources namely, elsevier, IEEE and crossref, merges this data into a unified format and converts them to appropriate database models.

EXTRA CURRICULAR ACTIVITIES

8TH LINUX FESTIVAL | VIRTUALIZATION WORKSHOP

2017 | Amirkabir University of Technology

I was the instructor about the virtualization technologies in general and how to use Docker specifically for containerization.

NODE.JS SUMMER COURSE | INSTRUCTOR

Summer 2017 | Computer Department Scientific Committee

Teaching Node.js basics from the ground to web application and bot development.

7TH LINUX FESTIVAL | LINUX BASICS PRESENTER

2016 | Amirkabir University of Technology

I had a 20 minutes talk about code editing in Linux and about best practices in code editing.

REFERENCES

BAHADOR BAKHSHI | ASSISTANCE PROFESSOR

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