

Iman Tabrizian

Curriculum Vitae

Contact Info

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StackOverflow <http://stackoverflow.com/users/4453461/iman>

Research Interests

- Internet of Things (IoT)
- Software Defined Networking
- Distributed Systems

Education

- 2014–2018 **Undergraduate, Computer Software Engineering**, *Amirkabir University of Technology*, Tehran, Iran.
(Expected)
 - Current GPA 18.13 / 20 (105 / 144 credits)
- 2010–2014 **Diploma of mathematics and physics**, *Rouzbeh High School*, Tehran, Iran.
 - GPA 19.34 / 20

Honors

- 2015 Eligible to choose a second major due to outstanding performance.
- 2015 Chosen as finalists at 7th Java Challenge. (As a member of our team)
- 2015 Participated in the 16th ACM-ICPC of West Asia, Sharif University of Technology, Tehran, Iran.
- 2015 Ranked 1st among undergraduate students of Computer Engineering, 2014 beginners, 14th ACM-ICPC, Amirkabir University of technology.
- 2012 Accepted in the first phase of the Computer and Mathematics National Olympiad.

Public Speaking

- 2016 **Presenter at 8th National Linux Festival**, *Amirkabir University of Technology*, Tehran, Iran.

2017 **Virtualization and Cloud Computing Workshop at 9th National Linux Festival**,
Amirkabir University of Technology, Tehran, Iran.

Work Experience

January 2016 **Member of the IoT laboratory**, *Amirkabir University of Technology*, Tehran, Iran.
– November 2016 Creation of middleware to work with different hardware actuators and sensors, and providing RESTful services for working with application services and analysis. Source code and more info is available at here <https://github.com/AoLab/I1820>
June 2016 – **Software developer**, *Farzan Fanandish Farda*, Tehran, Iran.
current Creation of a web-based software that provides APIs for fetching data from the 250 welding robots for Iran Khodro (A car producing company in Iran) and sending weld commands for them.
June 2016 – **Researcher and Developer**, *Research and Development of Amirkabir University of Technology*, *Fandogh*, Tehran, Iran.
current Researching and finding better solutions for current IT infrastructure of Amirkabir University of Technology including unit selections, accounting systems and so on.
Summer 2016 Internship at DATAX company, Fanap Holding Group

Teaching Experience

Spring 2017 Teaching Assistant, Database Systems Design, Amirkabir University of Technology, Under supervision of Prof. Shahriari
Spring 2016 Teaching Assistant, Advanced Programming, Amirkabir University of Technology, Under supervision of Prof. Noorhosseini
Autumn 2015 Teaching Assistant, Introduction to Programming, Amirkabir University of Technology, Under supervision of Prof. Bakhshi
2014–2015 Teacher, Introduction to programming with C++, Rouzbeh High school, 6 semesters.

Projects - Mostly Available on github.com/tabrizian

2017 Generic orchestration platform in association with Toronto University. This project is supposed to provide generic modeling to define the cloud and its virtual infrastructures **Python** → [link](#)
2016 Providing a middleware for connecting series of sensors and actuators with different protocols to the internet. **Python** → [link](#)
2016 Creation of *NovinNet* application for networking 250 welding robots for Iran Khodro. **PHP Laravel** → [link](#)
2016 Goldoon - Project for monitoring flowers humidity using nodemcu and RPi. **C++, NodeJS** → [link](#)
2015 – 2016 Iran Metro - An application for timetables and facilities of the metro station. Honored as the SELECTED NEW APP OF THE WEEK by cafebazaar (Iranian Android Market) **Java Android** → [link](#)
2015 RoboKill Implementation of RoboKill game **Java** → [link](#)

2015 Implementation of a simple guessing game, this was also executed on AlteraDE2 board - **Verilog HDL** → [link](#)

Skills and Expertise

- **Web Programming.**
PHP, Ruby, HTML, CSS, Javascript, NodeJS, Laravel, Python
- **General Software Programming.**
Matlab, Java, C/C++
- **Hardware Design Languages.**
Verilog, VHDL
- **Type Setting.**
VIM, L^AT_EX, LibreOffice, Microsoft Word
- **Hardware Simulators.**
ModelSim, Quartus, GHDL
- **DBMS.**
MySQL, MongoDB, SQLite, SQL Server
- **Operating Systems.**
Microsoft Windows, Linux (Ubuntu), Raspbian
- **IDE.**
Eclipse, Android Studio, IntelliJ IDEA, CLion, PHPStorm
- **Build Automations.**
Makefile, Gradle, Maven, CMake
- **IaaS.**
OpenStack
- **Misc.**
Docker - see hub.docker.com/u/tabrizian/

Undergraduate courses

- **Introduction to Programming.**
19.5 / 20
- **Advanced Programming with Java.**
20 / 20
- **Data structures and algorithms.**
20 / 20
- **Digital systems design.**
17.5 / 20
- **Electrical circuits.**
19.54 / 20
- **Engineering Statistics.**
19.7 / 20

- **Algorithm Design.**
20 / 20
- **Principles of database design.**
17.7 / 20
- **Theory of machines and languages.**
18.5 / 20
- **Software Engineering.**
19.5 / 20
- **Advanced Engineering Mathematics.**
19.93 / 20

■■■■ Languages

- Persian (Native Proficiency)
- English (Professional Working proficiency (TOEFL iBT 107 / 120))

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References available upon request