

# Hossein Razizadeh

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## Skills

- Computer Skills    Programming Languages: **C++, C, Python**  
Technologies: **Linux, Docker, Kubernetes, gRPC, OpenCV**
- Analytical Skills    **Data Structure, Design and Analysis of Algorithms, Design Patterns, System Design, Artificial Neural Networks, Genetic Algorithm, Reinforcement Learning, Image Processing, Computer Vision**

## Experience

- 2016–Present    **Senior Software Engineer**, CAFE BAZAAR, Tehran, Iran.  
Cafe Bazaar is a leading consumer internet company in Iran that runs the first and the most popular smartphone application marketplace for Persian-speaking countries with more than 40 million users. Here I deal with C++, Python, Docker, Kubernetes, gRPC.
- As an infrastructure team, our job on the Image team is to build vision services and serve the rest of the company. Along with Data Scientists whose job is to build machine learning models, I am responsible for our services' software development and back-end issues.
  - Achieved accuracy of 98.5% by combining automatic models and human annotations for extracting POIs (Point Of Interests) from pictures taken by imaging cars from the streets of Iran.
  - Organized the "Street Imaging" project to complete the "Balad" map POIs data.
    - Developed a windows application with C++ to capture images from three cameras installed on our cars, which takes up to 30 photos per second and receives and parses GPS data from a GPS Receiver.
    - Managed to capture more than 200 million high-quality photos of the streets of Iran for POI extraction.
- 2014–2016    **Senior Software Engineer**, SABZ BIOMEDICALS, Tehran, Iran.  
Developed two medicine lab software:
- Developed a high-performance karyotyping software for analyzing and reporting cytogenetic tests, which is used by laboratories in Iran. (using Delphi and Graphic32)
  - Developed a software for analyzing 2D gel images. (using Qt framework in C++)
- 2007–2008    **Software Engineer**, POOYA FANAVARAN KOSAR, Tehran, Iran.  
Developed core of mobile(in-car) speed camera system in C++ which installed on 76 undercover police vehicles all around Iran.
- 2005    **Software Engineering Internship**, RABI KOSAR, Tehran, Iran.  
Developed a code to receive high-speed signals without loss from DSP boards to PC. (Using C and Embedded-C)
- 2003–2016    **Computer Group Manager and Lecturer**, ALLAMEH HELLI HIGH SCHOOL, Tehran, Iran.  
Teaching C++, algorithms, data structure, Pascal; Managing a team of 10 CS teachers.

## Awards and Honors

- 2005    **1st Place**, *RoboCup 3D Soccer Simulation League*, Osaka, Japan.
- 2007    **5th Team Rank**, *ACM International Collegiate Programming Contest (West Asia Region)*, Tehran, Iran.

## Education

- 2013–2016    **MSc in Computer Science (Decision Sciences and Knowledge Engineering)**, *The University of Tehran*, Tehran, Iran.  
Thesis: Development and Implementation of an Image to Speech System to be used in Persian language.
- 2003–2009    **BSc in Computer Engineering**, *Amirkabir University of Technology, Tehran Polytechnic*, Tehran, Iran.  
Thesis: Evaluation of reinforcement learning algorithms on control problems with delayed reward signals.

## Languages

**English**                      **Persian**                      **Azerbaijani**