

# ERFAN MEHRABAN

Curriculum vitae last updated on April, 2022  
Tehran, Iran, 147178-6731. ◊ (+98)9194950906



## EDUCATION

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**Bachelor of Science in Computer Science** 2016-2021  
Amirkabir University of Technology(Tehran Polytechnic), Tehran, Iran  
CGPA: 3.55/4

Introduction to Computer and Programming: 4/4	Distributed Systems (Master Course): 3.8/4
Advanced Programming: 3.5/4	Block-chain: 3.5/4
Principles of Software Design: 3.8/4	Principles of Operating Systems: 3.25/4
Data Structures & Algorithms: 3.7/4	Computer Networks: 3.2/4
Design & Analysis of Algorithms: 4/4	Introduction to Probability: 4/4
Database: 3.8/4	Foundation of Matrix and Linear Algebra: 3.2/4
Advanced Database (Master Course): 3.7/4	Foundation of Numerical Analysis: 3.96/4

**Diploma in Physics and Mathematics Discipline** 2012-2016  
National Organization for Development of Exceptional Talents (NODET), Tehran, Iran  
GPA: 3.85/4

## WORK EXPERIENCE

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**Senior Software Engineer** Feb 2019 - Present  
*CafeBazaar*

- Design and develop high-available backend services and delivering product needed features in Python and Go, with over 1.5k request per second and 99.99% uptime over a week and 45 million users totally.
- Acted as a system owner of 4 primary payment service, responsible for codebase quality and availability of services.
- Refactoring and maintaining 10 years old legacy service with 90,000 lines of code.
- Deploying and monitoring microservices with cloud technologies like Kubernetes, Prometheus, ELK.
- Participate in the interviewing and changing hiring process of software engineering candidates.
- Mentored new software engineer hires and rewriting learning material for this process.

**Team Leader** Dec 2020 - Dec 2021  
*CafeBazaar*

- Leading cross functional product team up to 10 member about a year to achieve key results, delivering high quality product to customers.
- Work closely with product managers to develop product roadmaps.
- Collaborate in preparing OKRs, planning sprints, and participating in retrospective meetings.

**Backend Developer** Aug 2018 - Sep 2018  
*Yara Mobile*

- Rewriting online advertising platform panel from Laravel to Django.

## Software Engineer and Technical Team Leader

Oct 2016 - Apr 2018

*Saaland*

- Development and design video playing systems with the ability to synchronize with the server on the Raspberry-Pi minicomputer platform and development of the management panel on the Flask framework.

## PROJECTS

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### OLAP and OLTP TPC benchmark

2018

*Advanced Database Course Project*

Running tpc benchamrk on multiple industry defacto databases (Postgresql, Voltldb, Spark with HDFS) and benchmark machine and software performance.

### Ubroker

2019

*Distributed Systems Course Project*

- Async and fault tolerance message broker.

### View User Permission

2018

*Django Library*

- Authorize and manage permissions of users to access to views in django views just like how Django manage access of users to models including admin panel and permission classes.

### Bentley-Ottmann Implementation

2018

*Computer Geometrical Design Course Project*

- implementation in Bentley-Ottmann algorithm in general position by python and simple visualization of its export.

### Hill Cipher Algorithm Implementation

2018

*Linear Algebra Course Project*

## HONORS AND AWARDS

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**Ranked 1445 (Within the Top 0.008%) Among 162,000 Students in Iranian University Entrance Exam for BCs in Mathematics Physics**

Jul 2016

- The competition is intense since it is the only means to gain admission to universities.

## SKILLS

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<b>Programming Languages</b>	Python, Go, C/C++
<b>Web Technologies</b>	Django, Docker, Kubernetes, Prometheus, Apache Kafka
<b>Database</b>	PostgreSQL, Redis
<b>Typesetting</b>	L <sup>A</sup> T <sub>E</sub> X
<b>Miscellaneous</b>	Linux/Unix, Git, SQL, Jupyter, Microsoft Office
<b>Languages</b>	English (Full professional proficiency), Persian (Native).

## EXTRACURRICULAR EXPERIENCES

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### Policy Entrepreneur Intern

Dec 2019 - Sep 2020

*Governance & Policy Think Tank (GPTT)*

*Under Supervision of Hossein Mirzapour*

- Working on a solution for supervision on online digital advertising platforms by creating Reg-Tech businesses models and writing a policy advice on development of Reg-Tech type of market design.

**Instructor for Thinking and Lifestyle Lesson**

Sep 2017 - Jun 2018

*Allamehelli Highschool*

- Designing basic life skills textbooks and teaching them to 15-year-old children

**Caravan Executive Director**

Jan 2018

*Rouhollah Group*

*Disaster and Humanitarian Relief*

- Executive director of group which contains about 40 student from AUT. We went to Kordestaan which was under several earthquake. Group target was construct minimum and needed building for local people like houses, public bathroom and livestock house.

**📌 References, further information, and proofs are available upon request**