

# Keyvan Booshehri

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## EDUCATION

### Iran University Of Science And Technology (aka Elmosana't)

Tehran, Iran

*Bachelor of Computer Engineering*

*2018 - present*

- Last two years GPA : 16.54/20
- Iran's 4th rank university
- Ranked within top 1% students in Iran's universities entrance exam.
- Granted full tuition scholarship for bachelor's degree.

### Allameh Tabatabai High School

Tehran, Iran

*Mathematics and physics diploma*

*2014 - 2018*

- GPA : 19.91/20
- Granted tuition scholarship
- Ranked top student

## AREAS OF INTEREST

Software Engineering — Applied Machine learning — Reinforcement Learning — Embedded Systems

## ASSESSMENTS

- IELTS : Overall Score : 7.5 ( Listening : 9 , Reading : 6.5 , Speaking : 7.5 , Writing : 6.5 )
- GRE : To be taken in October

## EXPERIENCE

### Junior Research Assistant

2022 – Present

*[CPS-Lab](#): Scheduling heterogeneous RT embedded systems using model-based RL*

*supervision of [Dr.Monazzah](#)*

### BSc Capstone Project

2022 – Present

*RL applied on software defined networks*

*supervision of [Dr.Hekami](#)*

### Internship

Spring 2022

*Software Engineer in Automation Section of a local trading company ; developed RESTful APIs.*

### Teaching Assistant

2021 – Present

*Numerous Courses*

*Numerous Professors*

- Fundamentals Of Computer Programming ([Dr.Entezari](#) - Fall 2022 )
- Digital Logic ([Dr.Beitollahi](#) - Fall 2021)
- System Design and Analysis ([Dr.Ashtiani](#) - Winter 2021)
- Computational Intelligence ( [Dr.Mozayani](#) - Winter 2022)
- Digital Logic ([Dr.Monazzah](#) - Winter 2021)
- Computer Architecture ([Dr.Beitollahi](#) - Winter 2021)
- Discrete Math ([Dr.Hekami](#) - Fall 2021)
- System Security ([Dr.Dianat](#) - Winter 2022)

## PUBLICATIONS

Keyvan Booshehri, Mohammad.H Hosseininia, AMH Monazzah, Scheduling heterogeneous real-time systems using model-based reinforcement learning: in progress

## PROJECTS

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<a href="#"><u>Telegram NLP</u></a>	: A Comparison of <b>LSTM</b> and <b>Transformers</b> for the classification of Telegram channels	JUN 22
<a href="#"><u>Seam Carving</u></a>	: A C# program for resizing pictures with respect to details using <b>seam carving algorithm</b>	FEB 20
<a href="#"><u>Java Code Refactoring</u></a>	: A python program for <b>refactoring Java code</b> using Antlr	JAN 20
<a href="#"><u>Django backend API</u></a>	: A python <b>DRF</b> , <b>scrum</b> project for a book trading website	SPRING 20
<a href="#"><u>MATLAB Image processing</u></a>	: A MATLAB program for picture noise and edge detection	DEC 21
<a href="#"><u>AVR AC System</u></a>	: An AVR program for a smart cooling/heating system written in C	JAN 22
<a href="#"><u>Arduino Breath Capturing System</u></a>	: An Arduino program for a <b>real-time medical system</b>	JUN 22
<a href="#"><u>STM32 Vending Machine</u></a>	: An ARM STM32 microcontroller program written in C	JUL 20
<a href="#"><u>Turing Machine</u></a>	: A python implementation of Turing machine	JUL 20
<a href="#"><u>Finite Automata</u></a>	: A python implementation of finite automata	MAY 20
<a href="#"><u>Mini CPU</u></a>	: A Verilog implementation of a simple CPU	JUL 22
<a href="#"><u>Frequency Analysis</u></a>	: A python program for breaking substitution ciphers	DEC 21
<a href="#"><u>AES p2p messenger</u></a>	: A python program for secured peer too peer messaging	JUN 22

## CERTIFICATES

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Deep learning and neural networks ([Coursera certificate link](#))

## SELECTED ACADEMIC GRADES

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- Algorithm Design and Analysis : A+
- Data Structures : A+
- Software Engineering : A+
- Fundamentals Of Database Design : A+
- Digital Logic : A+
- Electrical Circuits : A+
- Engineering Mathematics : A
- System Design and Analysis : A
- Microprocessors and Assembly Language : A
- System Security : A

## TECHNICAL SKILLS

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**Languages** : C, C++, C#, Python, Java, VHDL, Verilog, 8086-Assembly, HTML, CSS

**Libraries** : OpenAI, GYM, NumPy, MatPlotLib, Keras, TensorFlow, PyTorch, Pandas, NLTK, PyGUI

**Frameworks** : Django Rest Framework, .NET Framework

**Developer Tools** : Git, Unix