

Soroush Barmaki | CV

Amirkabir University of Technology - Department of Computer Engineering
Tehrn – Iran

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🌐 Website

🌐 Soroush Barmaki

📷 sbarmak1377

RESEARCH INTEREST

- Operating system
- Cloud Computing
- IoT
- Security
- Machine Learning

EDUCATION

Amirkabir University of Technology
B.Sc. in Computer Science and Engineering
GPA: 3.23/4.00 (15.69/20)

Tehran, Iran
September,2016-September,2021

Yousefabad Salam Hisgh School
Diploma in Mathematics and Physics
GPA: 4.00/4.00(19.12/20)

Tehran, Iran
September,2012-April,2016

HONORS

- Member of Computer Science and Engineering department's guild council [Fall 2018 - Fall 2019].
- Participate in Amirkabir ACM Competition as staff [Fall 2018].
- Participate in two Amirkbair ACM Competitions as competitor[Fall 2016, Fall 2017].
- Ranked 556th in university entrance exam, among more than 162,000 participants [Summer 2016].
- Admission to the first stage of the Astronomy National Olympiad [Winter 2014].

TEACHING EXPERIENCE

- Teaching **PHP** in **Fira Programming Academy** [Fall 2020]
 - Teaching PHP Programming language and grading homeworks and final project.
- TA for **Computer Principles Workshop** [Fall 2020]
 - Teaching C Programming language and grading the course's homeworks.
 - Instructor: Dr. Hossein Zeinali
- TA for **Database Lab** [Fall 2019]
 - Teaching SQL and grading the course's final project.
 - Instructor: Dr. Hamidreza Shahriari
- TA for **Principles of Computer & Programming** [Fall 2017]
 - Explaining course's programming concepts, Teaching C Programming language and grading the course's final project.
 - Instructor: Dr. Bahador Bakhshi

KEY SKILLS

Programming/Scripting	Python, C, C++, C#, Java, Bash Scripting, SQL, VHDL, \LaTeX
Web Based Language	HTML, CSS, PHP, JS, Django, Flask, JQuery, Ajax, GO
Research Tool	Ubuntu, Parrot OS, Kali, Burp Suit, Kerio Firewall, Docker
DBMS	PostgreSQL, MySQL, MongoDB, Cassandra
Platforms/Libraries	OpenCV, Keras, Tensorflow
IOT Devices	Arduino, Raspberry pi
Big Data	Hadoop, Spark, Pig, HBase, Hive

PUBLICATIONS

- S. A. Saeidi, F. Fallah, **S. Barmaki**, H. Farbeh, "A Novel Neuromorphic Processors Realization of Spiking Deep Reinforcement Learning for Portfolio Management" Design, Automation & Test in Europe Conference & Exhibition (DATE),2022, Submitted.

RESEARCH EXPERIENCE

"Design and implementation of a web-based speech annotation system (B.Sc. Thesis, Fall 2021)"

- The main goal of this research is to gather required data using a web-based speech annotation system to produce persian text to speech machine learning model.
- This research uses another machine learning model to produce basic segments of an audio file. Using this model, users can annotate files faster with more ease.
- There will be a paper about the model goal that will be published later.

"Complete Portswigger Vulnerability labs (Fall 2020)"

- Learn vulnerability types and How to exploit them.
- Practice Penetration Testing and find vulnerabilities.

"Research on presenting Big data ecosystem solutions to researchers in High Performance Computing (Amirkabir University of Technology, Fall 2020)"

- Combine Hadoop with other Big data tools to present solutions for faster data processing and analyzing.

WORK EXPERIENCE

- Institute of Applied Systems of University of Tehran (IAIS) [February 2019 - December 2020]
 - Job Title: Devops Engineer
 - Skills: System Administration, Penetration Testing
- Arman Rayan Sharif [June 2018 - February 2019]
 - Job Title: Django Developer
 - Skills: Python, Django, Flask
- Papillon [April 2017 - June 2017]
 - Job Title: Android Developer
 - Skills: Java, Android

NOTABLE COURSES

- B.Sc. Courses

- Principles of Computer & Prog. (A+)
- Advanced Computer Programming(A+)
- Data Structure & Algorithms(A+)
- Computer Architecture(A)
- Software Engineering I(A)
- Principles of Cloud Computing(A+)
- Logic Circuits(A+)
- Engineering Statistics(A)
- Information Security(A)
- Operating Systems(B)

- Online Courses

- Machine Learning- From Basics to Advanced
- neural networks for autoencoders and recommender systems
- Helm - The Kubernetes package manager hands-on course
- Python 3 Master Course for 2021

LANGUAGE SKILLS

- Persian Native
- English Fluent
 - TOEFL test will be taken.

!References, Further information, and Proofs are available upon Request