

# Soroush Barmaki | CV

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

✉ soroushbarmakie@gmail.com

🌐 CV Website

🌐 Soroush Barmaki

📧 sbarmak1377

## RESEARCH INTEREST

---

- Operating system
- IoT
- Security
- Machine Learning

## EDUCATION

---

**Amirkabir University of Technology**  
*B.Sc. in Computer Science and Engineering*  
**GPA:** 3.12/4.00 (15.27/20)

**Tehran, Iran**  
*September,2016-September,2021*

**Yousefabad Salam Hisgh School**  
*Diploma in Mathematics and Physics*  
**GPA:** 4.00/4.00

**Tehran, Iran**  
*September,2012-April,2016*

## HONORS

---

- Ranked 556 in university entrance exam, among more than 162,000 participants [Summer 2016].
- Participate in two Amirkabir ACM Competitions as competitor[Fall 2016, Fall 2017].
- Participate in Amirkabir ACM Competition as staff [Fall 2018].
- Member of Computer Science and Engineering department's guild council [Fall 2018 - Fall 2019].

## TEACHING EXPERIENCE

---

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

## KEY SKILLS

---

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

## 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 faster with more ease.
- There will be a thesis about the model goal that will be submitted some time 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 Speed Processing Center (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 2018 - December 2020]
  - Job Title: Devops Engineer
  - Skills: System Administrator, Penetration Testing
- Arman Rayan Sharif [June 2018 - February 2020]
  - 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+)
- Principles of Cloud Computing(A+)
- Logic Circuits(A+)
- Data Structure & Algorithms(A+)
- Information Security(A)
- Engineering Statistics(A)
- Computer Architecture(A)
- Software Engineering I(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 on 7 December, 2021.

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