

Shervin Iranaghdeh

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EDUCATION

Islamic Azad University Science and Research Branch (SRBIAU) |

B.S. Computer Science 2020–2024

Major: Computer Science | GPA: 3.32/4 (16.53/20 last 3.5 years)

RESEARCH INTERESTS

Machine Learning — Natural Language Processing — Human-computer Interaction — Computer Vision — Multimodality

RESEARCH EXPERIENCE

Research | Multi-Commodity Transportation | SRBIAU | Spring 2023

Supervisor: [Dr. Farhad Hosseinzadeh Lotfi](#)

- Mathematical modeling of Multi-Commodity Transportation Problems ([PDF](#)).
 - Introducing a method for solving MCTP using SciPy Python.
 - Making a program with a simple UI that solves these problems and deploying it on HF Spaces for an online demo using Gradio Python library.
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WORK EXPERIENCE

Work | Front-end Developer | E-Commerce Brokers of Iran | Jul 2021 — Now

Supervisor: [Armin Rahimian](#)

- Contributing to various web-development and web-design projects as a member of Armin's team.
 - Developing and designing websites with DotNetNuke (DNN) and WordPress.
 - Developing websites with HTML, CSS & JavaScript.
 - Designing blog templates and writing blog posts for E-Commerce Brokers of Iran website.
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Internship | Front-end Developer | E-Commerce Brokers of Iran | Sep 2020 — Jul 2021

Supervisor: [Armin Rahimian](#)

- Learning Web Development, Web Design, UI/UX and HTML/CSS & JavaScript.
 - Learning DotNetNuke (DNN) and WordPress.
 - Contributing to web-development projects with insightful ideas and learning how to interact with customers and deliver their desired products on time.
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TEACHING EXPERIENCE

Teaching Assistant | Linear Optimization | SRBIAU | Fall 2023

Instructor: [Dr. Farhad Hosseinzadeh Lotfi](#)

- Holding 1 hour practice problem solving sessions.
 - Troubleshooting students and answering their course-related questions.
 - Generating practice problems for students.
 - Solving practice problems for students.
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Teaching Assistant | Calculus 1 | SRBIAU | Fall 2023

Instructor: [Dr. Somayeh Ghezalahmad](#)

- Handling the last 45 minutes of the class, and grading students based on their performance.

- Grading assignments and quizzes.
 - Troubleshooting students.
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PROJECTS & PRESENTATIONS

Project | Personal Website | Jul 2023

Developing, designing and coding my [personal website](#) from scratch as a complementary source in addition to my CV. (Code available on my [GitHub](#).)

Academic Project | Advanced Programming Final Project | Spring 2021 | SRBIAU

Made an application with Python programming language called "Music Suggester" that suggests music to users based on their taste after asking several questions.

Academic Presentations | University Courses Presentations | 2020-2023 | SRBIAU

- Operating Systems: Docker.
 - Artificial Intelligence: 8-Queens Problem.
 - Computer Networking: Domain Name System (DNS).
 - Computer Systems: Cryptography.
 - Linear Algebra: Applications in Machine Learning.
 - Basics of Matrices and Linear Algebra: Proof of Theory.
 - Algebra: Proof of Theory.
 - Intro to Combinatorics: Proof of Theory.
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SKILLS & TOOLS

- Programming Languages: Python, JavaScript, HTML/CSS, Go, MATLAB, C/C++, R.
 - Libraries: NumPy, Pandas, Scikit-Learn, TensorFlow, PyTorch, Matplotlib, SciPy, Gradio, Kivy.
 - Applications: MATLAB, Adobe Illustrator, Figma, Word (Docs), Excel (Sheets), PowerPoint (Slides).
 - Other: Git (version control), DotNetNuke (DNN), WordPress.
 - IDEs: PyCharm, WebStorm, Google Colaboratory, Jupyter Notebook.
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TOEFL iBT

Overall: 99 (Reading: 25, Listening: 26, Speaking: 22, Writing: 26)

RELATED COURSES

Machine Learning ¹	Linear Algebra	Linear Optimization
Probability	Logic	Artificial Intelligence (in progress, SRBIAU)
Numerical Linear Algebra	Numerical Analysis	

REFERENCES

- Dr. Farhad Hosseinzadeh Lotfi (SRBIAU Full-time Faculty) | [Google Scholar](#) | [Scopus](#) | [Email](#)
 - Dr. Tofigh Allahviranloo (SRBIAU & İstinye Üniversitesi Faculty) | [Google Scholar](#) | [Scopus](#) | [Email](#)
 - Dr. Somayeh Ghezalahmad (SRBIAU Full-time Faculty) | [Google Scholar](#) | [Scopus](#) | [Email](#)
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Hobbies & Activities

Basketball (played 3 years semi-professionally - teams: Cyrus, Takhti - position: PG & SG), Piano, Graphic Design, Other sports, Experimenting with language and diffusion models.

¹ The official name for this course is "Topics in Computer Science" in which the professor chooses a computer science related topic for the course which in our case was Machine Learning. Coding assignments for this course are available on my GitHub.