

Hosein Mirhoseini

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EDUCATION AND TRAINING

[2019 – 2023]

Bachelor in computer engineering

Shiraz University <https://shirazu.ac.ir/en/home>

Final grade: 17.33/20

Final Engineering Project: Supervisor: Dr. Ziarati | Project: Quantum inspired meta-heuristics.

[2016 – 2019]

Highschool Diploma - Specialized in Maths and Physics

National Organization for Development of Exceptional Talents (NODET)

Final grade: 19.11/20

RESEARCH INTERESTS

Research Interests:

- Optimization and Metaheuristic algorithms
- AI, Machine learning, Deep learning and Computer vision
- Predictive Analytics for health-related problems
- NLP and Neural Networks
- Bioinformatics and Natural computing

PUBLICATIONS

[2023]

An overview of Quantum inspired Metaheuristic Algorithms

Reference: Mirhoseini, H (Nov. 2023) National Conference of Artificial Intelligence and Software Engineering.

TEACHING EXPERIENCE

[2021 – 2023]

University Teaching Assistant at Shiraz University

- Engineering Mathematics, **Dr. Amin Eskandari**, Winter 2021 and Winter 2022
- Algorithm Design and Analysis, **Dr. Koorush Ziarati**, Fall 2022
- System Programming and Assembly Language, **Dr. Hosein Esfandiari**, Fall 2022
- Numerical Computing, **Dr. Amin Eskandari**, Winter 2023
- Microprocessors, **Dr. Mohsen Raji**, Winter 2023
- Database Design, **Dr. Mohammad Hadi Sadradini**, Winter 2023
- Algorithm Design and Analysis, **Dr. Zohreh Azimifar**, Winter 2023

[2023 – 2023]

Python Instructor at Navid Educational Group

WORK EXPERIENCE

[2023 – Current]

AI developer

Noavaran Pars Dade

- Applying machine learning algorithms | Image processing | Data analysis

[2021 – 2023]

Software developer

Adak Negargaran Nika <https://adak.website/>

- Back-end: NestJs | Front-end: NextJs | Database: Mongo & Postgre

PROJECTS

[2023]

Solving TOPTW Using Metaheuristics

Advanced Algorithms course at Shiraz University:

- Algorithms: Simulated Annealing, GRASP, Tabu Search, Genetic Algorithm

[2023]

Smart Doctor

System Analysis and Design project at Shiraz University:

- A binary decision tree approach to disease diagnosis based on symptoms.
- Doctor's suggestion based on the disease.

[2023] **Cice**

3D Online Shopping Platform at Noavaran Pars Dade:

- Applied Machine Learning | Image Processing | REST API

[2022] **Football Players Death Data Analysis**

Data analysis project at Noavaran Pars Dade:

- Data Preparation and Cleaning | Exploratory Analysis and Visualization

[2023] **Redstart Website**

Online Platform for Educational Immigration Affairs at Adak Negargaran Nika

- Backend: Nestjs | Frontend: Nextjs | UI/UX: Figma

Link: <https://redstartapply.com/>

VOLUNTEERING

[2021 – 2022] **Member of CSE Scientific Association** Shiraz University

[2020 – 2021] **Head of Content Production Committee** Shiraz University | Hour of Code

CERTIFICATES

[2022] **DATA ANALYSIS WITH PYTHON: ZERO TO PANDAS from Jovian**

Link: <https://jovian.com/>

[2023] **MACHINE LEARNING WITH PYTHON: ZERO TO GBMS from Jovian**

Link: <https://jovian.com/>

HONOURS AND AWARDS

Ranked 1st AND 2nd in courses

- Numerical Computing | Artificial Intelligence | Algorithm Design and analysis | Operational Research | Database Design | Computer Networks | Operating Systems

[2023] **Rank 5 among students of computer engineering. Entrance year: 2019**

[2019] **Ranked within the top 1% among 164,000+ participants in the university entrance exam.**

DIGITAL SKILLS

Programming skills

Python | Java | C++ | Javascript | Typescript | C

Developing skills

NestJS | FastAPI | SQL | NextJS | Git | MongoDB

Other skills

Microsoft Office | Latex | Linux | Arduino

LANGUAGE SKILLS

Mother tongue(s): Persian

Other language(s):

English

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

REFERENCES

References:

- **Dr. Kourush Ziarati** | Associate Professor at Shiraz University | ziarati@shirazu.ac.ir
- **Dr. Farshad Khunjush** | Associate Professor at Shiraz University | khunjush@shirazu.ac.ir
- **Dr. Mohsen Raji** | Associate Professor at Shiraz University | mraji@shirazu.ac.ir