

Armin Saadat Boroujeni

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EDUCATION

- **University of British Columbia** Vancouver, Canada
MASc in Electrical and Computer Engineering Sep. 2022 - Expected May. 2024
- **Sharif University of Technology** Tehran, Iran
B.Sc. in Computer Engineering Sep. 2017 - May. 2022
GPA: **19.14/20** (4.00/4.00) - ranked among top 10 students.
- **Allameh Helli High School** Tehran, Iran
Diploma in Mathematics and Physics - GPA: 19.93/20 - ranked 1st among 110 students. Sep. 2013 - May. 2017
Affiliated with the National Organization for Development of Exceptional Talents (NODET).

PUBLICATIONS

- **3D Human Pose Prediction: Where Do Simple Approaches Stand?**
Armin Saadat, Nima Fathi, Saeed Saadatnejad, Taylor Mordan, Alexandre Alahi. submitted to CVPR 2022
- **Efficient 3D Image Segmentation via Joint Context Completion and 2D Segmentation**
Armin Saadat, Hossein Khalili, Parnian Zamani, Mahdieh Soleymani Baghshah. submitted to CVPR 2022

WORK EXPERIENCE

- **Analysaur**
Co-Founder and Product Manager Jul. 2019 - Aug. 2020
 - A startup company focused on Digital Marketing and Advertising.
 - Created an all-in-one online platform connecting buyers, sellers, and advertisers.
 - Programmed in Python, JavaScript, GO; using frameworks like Django, ReactJs, and VueJs.
- **Weblite Company**
Software Engineer Jan. 2019 - Jun. 2019
 - An online educational platform enabling teachers and students to present themselves, connect, conduct live sessions, and produce educational content.
 - Developed Weblite messenger, the core of the platform.
 - Designed and developed several applications used in the platform.

TEACHING ASSISTANT EXPERIENCE

- **Design of Algorithms - Lead TA**, Prof. Zarrabi-Zadeh Fall 2021
- **Advanced Information Retrieval**, Prof. Soleymani Baghshah Spring 2021
- **Artificial Intelligence**, Prof. Rohban Spring 2021
- **Design of Algorithms**, Prof. Seddighin Spring 2021
- **Discrete Structures**, Prof. Abam Fall 2020
- **Discrete Structures**, Prof. Zarrabi-Zadeh Fall 2020
- **Artificial Intelligence**, Prof. Rohban Spring 2020
- **Linear Algebra**, Prof. Rabiee Spring 2020

HONORS AND AWARDS

- **Vector Scholarship in Artificial Intelligence**
- **Member of Iran's National Elites Foundation**
- **Captain of the Sharif Basketball Team**
- *Won 2nd place in Tehran, and found our way to the nation-wide Olympiad.*
- **Ranked 14th in the Nation-Wide University Entrance Examination**
B.Sc. in Mathematics and Physics, among over 145,000 participants, 2017, Iran
- **Ranked 71st in the Foreign Languages University Entrance Examination**
B.Sc. in Foreign Languages, among over 120,000 participants, 2017, Iran

SELECTED COURSEWORK

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| - System Analysis and Design: 100% | - Intro to Entrepreneurship: 100% |
| - Machine Learning (graduate): 100% | - Calculus: 100% |
| - Artificial Intelligence: 100% | - Design of Algorithms: 100% |
| - Linear Algebra: 100% | - Numerical Computation: 100% |
| - Advanced Information Retrieval: 95% | - Discrete Structures: 97% |

ACADEMIC SERVICES

- **Scientific Staff, [DataDays](#)**, Iran's Largest Machine Learning and Data Science Competition 2020
- **Scientific & Technical Staff, [Sharif AI Challenge](#)**, Iran's Largest AI Competition 2018, 2019
- **Technical Specialist, [Sharif Winter Seminar Series](#)**, Annual Seminar in advanced topics of CSE 2018, 2019

TECHNICAL SKILLS

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| • Programming Languages: | Python, Java, C, C++, JavaScript |
| • Machine Learning Frameworks: | PyTorch, TensorFlow, Keras, NumPy, OpenCV, Scikit-Learn, Pandas |
| • Web Development & Database: | Django, Vue.js, MongoDB, HTML, CSS |
| • Hardware Design: | Quartus, Arduino, Proteus, ModelSim, Verilog, MIPS Assembly |
| • Miscellaneous: | Git, Linux, Windows, L ^A T _E X, Microsoft Office (word, excel, powerpoint) |
| • Standardized Tests: | TOEFL (R:28, L:30, S:23, W:29, sum:110), GRE (Q:170, V:149, AW:4.0) |

RESEARCH EXPERIENCE

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|---|------------------------------|
| Human Pose Prediction & Forecasting the Trajectory of Pedestrians | Lausanne, Switzerland |
| • <i>Research Assistant at the Visual Intelligence for Transportation (VITA) Lab, EPFL</i>
<i>Supervisor: Prof. Alexandre Alahi</i> | <i>Jul. 2021 - Nov. 2021</i> |
| <ul style="list-style-type: none">◦ Conducted a literature review on Trajectory & Pose Prediction methods.◦ Developed a novel model outperforming baselines by 20%. Accepted in ICCV 2021: paper◦ Won 3rd place in the Stanford Challenge on Social Motion Forecasting: source-code◦ Developed a library for pose prediction, supporting over 10 models and 8 datasets. | |
| Weakly-Supervised Segmentation Using RNN-Based Registration | Tehran, Iran |
| • <i>Research Assistant at the Medical Imaging Lab, Sharif University of Technology</i>
<i>Supervisor: Prof. M.Soleymani Baghshah</i> | <i>May. 2021 - present</i> |
| <ul style="list-style-type: none">◦ Proposed a method to label 2D slices of 3D data, given a few labeled ones. source-code◦ Combined U-Net with an RNN to take advantage of the sequential information of consecutive slices.◦ Improved results by up to 5% on abdominal datasets compared to the state-of-the-art. | |
| Spatio-Temporal Segmentation of Myocardial Infarction | Tehran, Iran |
| • <i>Research Assistant at the Medical Image Analysis Lab, Sharif University of Technology</i>
<i>Supervisor: Prof. M.H.Rohban</i> | <i>Oct. 2020 - Nov 2021</i> |
| <ul style="list-style-type: none">◦ Used cardiac MRI to segment scar tissues of the heart causing possible future heart attacks.◦ Achieved clean data from inconsistent clinical data using deformable registration techniques.◦ Combined LSTM with Conv3D to extract temporal features for infarction delineation.◦ Exploited transformers to achieve state-of-the-art results. | |

HOBBIES

Playing Basketball, Observational Astronomy, Camping, Playing the Piano