SEYED ALIREZA FATEMI JAHROMI

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Tehran, Iran

seyedalirezafatemi.github.io

EDUCATION

Sharif University of Technology, Tehran *2016 - Present*
Bachelor of Science in Computer Engineering GPA: 18.45/20
Shahid Dastgheib High School, Shiraz *2012 - 2016*
Diploma, National Organization for Development of Exceptional Talents (NODET) GPA: 19.69/20

HONORS

Recipient of the grant and membership of **Iran's National Elites Foundation**, for outstanding academic success. *Summer 2016 - Present*

Participant of the third and the fourth round of **Shahid Ahmadi Roshan Project** which is funded by **Iran's National Elites Foundation** and supervised by Prof. Behroozi and Prof. Soleymani. *Spring 2019 - Present*

Reached the final stage of Artificial Intelligence Challenge in Medical Imaging 2019, Intelligent Assessment of Imaging Biomarkers of Dementia. *Fall 2019*

Ranked **8th** in the MICCAI Automatic Prostate Gleason Grading Challenge 2019. *Fall 2019*

Ranked **3rd** in the First National EEG Data Analysis Competition with Clinical Applications organized by National Brain Mapping Lab (NBML). *Summer 2019*

Ranked **1st** in the third Sharif ICT Challenge (Fintech) among 65 chosen teams. *Summer 2019*

Ranked **12th** in code-cup contest among approximately 3100 participants. *Fall 2018*

Ranked **top 0.08%** in the National Entrance Exam (Konkoor) among all Iranian Students (Ranked 131th among approximately 163000 applicants) in Math. & Physics. *2016*

Ranked **top 0.1%** in the National Entrance Exam (Konkoor) among all Iranian Students (Ranked 229th among approximately 115000 applicants) in Foreign Languages. *2016*

PUBLICATIONS

[1] A. Khani, **S.A. Fatemi Jahromi**, H. Otroshi Shahreza, H. Behroozi, M. Soleymani Baghshah, "Towards Automatic Prostate Gleason Grading via Deep Convolutional Neural Networks", *The 5th Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS 2019)*, Shahrood, Iran, 2019

[2] **S.A. Fatemi Jahromi**, A. Khani, H. Otroshi Shahreza, B. Otroshi Shahreza, H. Behroozi, M. Soleymani Baghshah, "A Deep Learning Framework for Viable Tumor Burden Estimation", To be submitted soon

RESEARCH INTERESTS

Artificial Intelligence
Machine Learning & Deep Learning
Computer Vision & Image Processing
Software Engineering

WORK EXPERIENCE

Iran's National Elites Foundation, Shahid Ahmadi Roshan Project, Tehran *2019 - Present*
Researcher

A project funded by Iran's National Elites Foundation and supervised by Prof. Behroozi and Prof. Soleymani. My Responsibilities include:

. Researching state-of-the-art Deep Learning techniques and applying them to different applications in the medical field such as digital pathology. My research is focused on the classification and segmentation of different types of cancer in digital pathology images. I work with Whole Slide Images from various organs such as Liver, Colon, and Prostate. I also worked with 3D brain MRI images for the task of grading Periventricular White Matter Changes, Deep White Matter Changes, and Global Cortical Atrophy.
. Meeting with hospital, clinic, and laboratory managers for requirements engineering and data gathering.
. Designing and developing software products.

6th Rahnema College Internship, Tehran   *Summer 2018*
Software Engineer & Team Leader

During the 7-week internship program, I gained experience in the following areas of Software Development:

. Teamwork
. Scrum
. UI/UX
. Full Stack Development

TECHNICAL STRENGTHS

Programming Languages	C, C++, Java, Kotlin, JavaScript, TypeScript, MATLAB, R, Python, Racket, Scheme, Swift
HDL	Verilog
Machine Learning	TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy
Software & Tools	LaTeX, Git, JIRA, Adobe XD
Web Frameworks	React, ReactNative, Django, Gatsby, Next, GraphQL, Docker

PERSONAL TRAITS

Highly motivated and eager to learn new things.
Focused, Committed, Adventurous, Cheerful, Flexible, Honest, Responsible, Charismatic.
Strong motivational and leadership skills.
Ability to work as an individual as well as in group.

LANGUAGES

Persian: Mother Tongue
English: Fluent

REFERENCES

Prof. Dr. Hamid Behroozi
Assistance Professor, Electrical Engineering Department, Sharif University of Technology, Tehran, Iran. Email: behroozi@sharif.edu

Prof. Dr. Mahdieh Soleymani Baghshah
Assistance Professor, Computer Engineering Department, Sharif University of Technology, Tehran, Iran. Email: soleymani@sharif.edu