SEYED ALIREZA FATEMI JAHROMI

afatemi@ce.sharif.edu ⋄ alirezafa@rocketmail.com

Tehran, Iran

seyedalirezafatemi.github.io

EDUCATION

Sharif University of Technology, Tehran *2016 - Present*
Bachelor of Science in Computer Engineering GPA: 18.62/20
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*

Ranked **5th** in MoNuSAC 2020 Challenge and Ranked **3rd** in the Post-Challenge Leaderboard. MoNuSAC 2020 Challenge was an official satellite event of ISBI 2020. I was one of the three members of Sharif HooshPardaz Team. We were invited to present our method in the MoNuSAC 2020 Workshop. *Spring-2020*

Ranked **3rd** in the Eleventh Sharif VC Cup. I was a member of Sharif HooshPardaz Team. *Winter-2020*

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. We were invited to present our method in MICCAI 2019 conference, which was held in October 2019, Shenzhen, China. *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

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

WORK EXPERIENCE

Iran's National Elites Foundation, Shahid Ahmadi Roshan Projects, Tehran
Spring 2019 - Summer 2020 (18 months)
Researcher & Developer

I was a member of a project funded by Iran's National Elites Foundation and supervised by Prof. Behroozi and Prof. Soleymani, focused on Medical Image Analysis. My Responsibilities included:

. Researching state-of-the-art Deep Learning techniques and applying them to different applications in the medical field, such as digital pathology. My research was focused on the classification and segmentation of different types of cancer in digital pathology images. I worked with Whole Slide Images from various organs such as Liver, Colon, and Prostate. I also worked on classifying and segmenting Covid-19 patients' CT Scan images and 3D brain MRI images.
. Meeting with hospital, clinic, and laboratory managers for requirements engineering and data collection.

Iran's National Elites Foundation, Shahid Ahmadi Roshan Projects, Tehran
Spring 2019 - Summer 2019 (6 months)
Front-end Web Developer

I was a member of a project funded by Iran's National Elites Foundation and supervised by Prof. Heydarnoori, focused on developing a Real-time locating system. I worked as a Front-end Web Developer, and my main task was to develop the admin panel of this system.

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	React, ReactNative, Django, Gatsby, Next, GraphQL, Docker, Flask

PERSONAL TRAITS

Highly motivated and eager to learn new things.
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