


Mohammadreza Mohseni

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Education

Master of Science - Computer Science - Thesis Based Sep 2019 - Current
Simon Fraser University, BC, Canada
CGPA: 4.0/4.0

Courses:

- Machine Learning
- Data Mining
- Computer Vision
- Directed Reading (Machine Learning in Dermatology)
- Design and Analysis of Algorithms

Bachelor of Science - Computer Engineering Sep 2014 - June 2019
Shahid Beheshti University, Tehran, Iran
CGPA: 3.04/4.0

Achievements

2019 ACM-ICPC World-Finalist (Porto, Portugal)
2018 ACM-ICPC World-Finalist (Beijing, China)
1st Place in The 2018 ACM-ICPC Regional Contest
1st Place in The 2017 ACM-ICPC Regional Contest
Among Top 1% in Iranian University Entrance Exam
3rd Place in Tehran Regional Chess Championship

Notable Projects

Kaggle Future Sales Prediction (group project) Fall 2019

- <https://www.kaggle.com/mrm196/competitions>
- Ranked among top 12% of competitors

B.Sc. Thesis: Image Style Detection Fall 2018 - Winter 2019

- Multiclass classification on image styles
- Method: Deep convolutional neural network
- Tool: Keras and Python
- Results: Precision numbers outperformed the latest reported numbers based on Flickr dataset

Experiences

MetaOptima Technology Inc — Vancouver, BC - *Research Assistant* Jan 2021 – Current

- Developing Machine Learning Models and Algorithms for Dermatology using Pytorch

MetaOptima Technology Inc — Vancouver, BC - *MITACS Research Intern* Jan 2020 – Aug 2020

- Developing Machine Learning Models and Algorithms for Dermatology using Pytorch

Simon Fraser University — Burnaby, BC, Canada

- Research Assistant supervised by professor Stella Atkins Sept 2019 – Current
- SFU ACM-ICPC coach [Link] Oct 2019 – Current

Shahid Beheshti University, Computer Engineering Department — Tehran, Iran
- *Undergraduate Teaching Assistant*

- Introduction to Programming Fall 2015
- Advanced Programming Fall 2015, Spring 2016, Spring 2017, Spring 2018, Fall 2018
- Statistics and Probabilities Spring 2016

- Data Structures Spring 2017, Fall 2017, Fall 2018
- Algorithms Design Spring 2017, Fall 2017, Spring 2018, Fall 2018
- Operating Systems Fall 2018
- NoSQL Databases Spring 2019

- *Instructor*

- Instructor at SBU ACM-ICPC Summer Camp Summer 2017, Summer 2018

Rahnema College — Tehran, Iran

- *Intern - Backend Developer* Oct 2017 – Dec 2017

- Providing Restful API using Java SpringBoot
- Load balancing using Nginx

Tooska — Tehran, Iran

- *Intern - Web Developer* May 2017 – Sept 2017

- Providing Restful API using ASP.NET
- Developing Android applications

Research Publications

- M. Mohseni, J. Yap, W. Yolland, A. Koochek, and MS. Atkins. Can self-training identify suspicious ugly duckling lesions? In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, pages 1829–1836, June 2021.
- M. Mohseni, J. Yap, W. Yolland, M. Razmara, and MS. Atkins. Out-of-Distribution Detection for Dermoscopic Image Classification. arXiv, 2021

Other (Course) Projects

- Machine Learning: Conditional generation of MNIST dataset using Continuous Normalizing Flows (CNF)
- Operating Systems: Implementing an efficient scheduler to handle the race condition and optimize the total runtime
- Computer Networks: Implementing a reliable data transfer protocol and DistanceVector routing algorithm
- Assembly Language: Using Netwide Assembler to implement a simple OS with CLI using Qemu Simulator.

Skills

Strong problem solving skills

Programming Languages: C/C++, Java, Python, R, Matlab, Elm (functional), Assembly

Machine Learning Frameworks: Pytorch, Keras, Tensorflow

Databases: MySQL, MongoDB, Redis, Neo4J, SQL Server

Language Skills

Persian: Native

English: Fluent

French: Beginner

Hobbies

Outdoor running

Listening to audio books

Playing chess