

MOHAMMAD HADI SALARI

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[LinkedIn](#) — [Github](#)

EDUCATION

Master's of Computing Science

Sep. 2019 - now

[School of Computing Science, Simon Fraser University](#), Burnaby, BC, Canada

Supervised by [Prof. Greg Mori](#), GPA: 4.13/4.33

Highlighted Courses: Computer Vision (A+), Machine Learning (A+), Natural Language Processing (A+), Database and Knowledge-base Systems (A-)

Bachelor of Science in Computer Engineering

Sep. 2014 - June 2019

[Department of Computer Engineering, Sharif University of Technology](#), Tehran, Iran

[Prof. Mahdieh Soleymani](#), GPA: 18.57/20

RESEARCH EXPERIENCE

Graduate Research Assistant

Sep. 2019 - now

[Vision and Media Lab, Simon Fraser University](#), Burnaby, BC, Canada

Supervisor: [Prof. Greg Mori](#)

Thesis Area: Computer Vision, Deep Learning

I am working on the catastrophic forgetting problem of Neural Networks by leveraging block-diagonal Kronecker factored approximation of loss functions.

Research Assistant

Dec. 2017 - Feb. 2019

[Machine Learning Lab, Sharif University of Technology](#), Tehran, Iran

Supervisor: [Prof. Mahdieh Soleymani](#)

I designed and developed an AI system which classifies advertisements posted on a classified-ad platform based on their descriptions using a character-level Convolutional Neural Network.

WORK EXPERIENCE

Research Intern

Feb. 2021 - now

[Tellex](#), Vancouver, BC, Canada

I worked on the applications of Machine Learning in Robotics, specifically localizing people in indoor environments using Camera and IMU sensors of a smartphone. I also worked on using sparse LIDAR point clouds and camera images to generate a dense depth map that helps robot navigation.

Software Engineer

June 2017 - Sep. 2018

[Cafebazaar](#), Tehran, Iran

As a Back-End developer, I was responsible for maintaining and adding new features to a classified-ad platform developed with Django framework. I also designed and developed two microservices from scratch using Go programming language.

SKILLS

Programming Languages and Tools

Python, Go, Java, C++, SQL, Git, Docker, \LaTeX

Deep Learning

Pytorch, Keras

Web Development

HTML, CSS, JavaScript, Django

Operating Systems

Linux, Windows

Languages

Farsi, English

TOP ACADEMIC COURSE PROJECTS

Machine Learning

Building a conditional deep generative model using a Variational Autoencoder architecture and making the posterior distribution more complex using Continuous Normalizing Flows.

Natural Language Processing

Detecting irony tweets using a Temporal Convolutional Network and a Recurrent Neural Network and comparing their results with each other.

Database and Knowledge-base Systems

Proposing an EM algorithm for clustering uncertain data using KL-divergence as the distance metric and evaluating the algorithm on some synthetic and real data.

HONORS AND AWARDS

Ranked among top 10% in Cumulative GPA among 140 undergraduate students in Department of Computer Engineering, Sharif University of Technology, September 2014 until June 2019.

Ranked 37th among more than 300,000 participants in [National University Entrance Exam](#), Admitted to Sharif University of Technology, Summer 2014.

Semifinalist in the National Olympiad in Computer Major and ranked for the first 80 students among the country, June 2013.

Recipient of the Grant for Undergraduate Studies from the Iranian National Foundation of Elites, awarded to selected members, 2014 until 2019.

Recognized as talented student in entry exam of NODET among Yazd students for middle and high school, 2007 & 2010.