Ali Gholami

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EDUCATION

Simon Fraser University — School of Computing Science, *Burnaby, Canada*
M.Sc. of Computer Science   *Aug. 2019 – Spring. 2021*
GPA: **4/4** — Advised by Dr. Angel Xuan Chang

Amirkabir Univeristy of Technology, *Tehran, Iran*
B.Sc. of Software Engineering   *Aug. 2016 – April. 2019*
GPA: **17.87/20** — Advised by Dr. Mohammad Rahmati

- Transferred due to outstanding performance
- Thesis: Implementation of A Mid-level PyTorch-based API for Visual Question Answering

Kharazmi University of Tehran, *Tehran, Iran*
B.Sc. of Software Engineering   *Aug. 2014 – Jul. 2016*
GPA: **17.5/20**

- Ranked 2 among 35 students

Kamal Highschool, *Tehran, Iran*
Diploma in Mathematics and Phsyics   *Oct. 2012 – Jun. 2014*
GPA: **19.58/20**

Research Experience

GRUVI Lab - 3D Language Group, *Simon Fraser University, Canada*
Research Assistant — Advised by Dr. Angel Xuan Chang   *Aug. 2019 – Spring. 2021*
- Studying state of the art video captioning models.
- Studying grounding and alignment in dense video captioning.

Bio-intelligence Research Unit, *Sharif University of Technology, Iran*
Research Assistant — Advised by Dr. Ali Ghazizadeh   *Jun. 2018 – July. 2019*
- Provided deep learning based medical imaging solutions for the National Research Institute of Tuberculosis and Lung Diseases, Dr. Masih Daneshvari Hospital.
- Developed algorithms for detection, localization and segmentation of diseases in lung chest x-rays.
- Developed CNN visualization techniques (Saliency and Prediction Mean Maps).

Teaching and Mentorship Experience

Summer School of Intelligent Learning, *School of Cognitive Sciences, IPM*
Instructor   *Aug. 2019 – Aug. 2019*
- Taught Python programming crash course. I also served as a mentor at this event.

First Neuroscience Symposium, *Sharif University of Technology*
Instructor   *Feb. 2019 – Feb. 2019*
- Taught fundamentals of EEG processing with convolutional neural networks.

Computational Intelligence (Undergraduate), *Amirkabir University of Technology*
Teaching Assistant   *Dec. 2018 – Jun. 2019*
- Held tutorial classes, designed and graded assignments.

Machine Learning (Graduate), *Sharif University of Technology*
Guest Teaching Assistant   *Dec. 2018 – Jun. 2019*
- Held tutorial classes, designed and graded assignments.

Foundations of Data Mining (Undergraduate), *Amirkaibr University of Technology*
Teaching Assistant   *Sep. 2018 – Dec. 2018*
- Held tutorial classes, designed and graded assignments.

Microprocessors and Assembly Programming (Undergraduate), *Amirkaibr University of Technology*
Teaching Assistant   *Sep. 2017 – Dec. 2017*
- Held tutorial classes, designed and graded assignments.
- helped in unit testing a multi-purpose ATmega-32 based educational board.

Achievements and Honors

○ Computing Graduate Fellowship (34.5K) — Simon Fraser University   Jan. 2019
○ SYDE Graduate Fellowship (36K) — University of Waterloo   Dec. 2018
○ 3rd Most Active GitHub Developer in Iran — based on commits.top   Jul. 2018
○ Ranked 1703 out of 230K — University Entrance Concours   Jul. 2014
○ 2nd Dan Black Belt in Kyokushin Karate   Jul. 2012

Industry Experience

ArvanCloud, *Tehran, Iran*
Web Development Intern   *Jun. 2017 – Sep. 2017*
○ Developed an administrative panel for an smart lock system using PHP and Laravel.

Fandogh, *Tehran, Iran*
Android Development Intern   *Jun. 2017 – Sep. 2017*
○ Design and implementation of a weather forecast application with Java SE Android Studio.
○ Development of a poetry application with React Native.

Technical and Communication Skills

○ **English — TOEFL**: *Test score for October 14th*: **112** (R: **29**/ L: **27**/ S: **27**/ W: **29**).
○ **Deep Learning**: Proficient in PyTorch, Tensorflow, Keras and OpenCV.
○ **Programming Languages and Frameworks**: Familiar with Java SE, Racket, React Native, Node.js, Laravel, MongoDB, PostgreSQL, MySQL, C, C++11, CUDA, OpenMP, Assembly.

Referees

• **Dr. Angel Xuan Chang**
  Professor of Computer Science, Simon Fraser University   (angelx@sfu.ca)

• **Dr. Mohammad Rahmati**
  Professor of Computer Engineering, Amirkabir University of Technology   (rahmati@aut.ac.ir)

• **Dr. Ali Ghazizadeh**
  Professor of Electrical Engineering, Sharif University of Technology   (ghazizadeh@sharif.edu)