Arash Asgari Mendejin

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Birthdate:	1999.06.08		
Nationality:	Iranian	Phone:	+98 912 898 4680
Website:	arashasg.github.io	GitHub:	https://github.com/arashasg
		Gender:	Male

Education

Sep 2021–Present	MSc, Software Engineering, Sharif University of Technology, Member of Intelligent Software Engineering Lab **Supervisor:** Dr. Abbas Heydarnoori
Sep 2017–Sep 2021	BSc, Software Engineering, K.N. Toosi University of Technology, Cumulative GPA: 19.04/20 (US CGPA: 3.99/4), Ranked **1st** in class of 75. **BSc Thesis**: Monocular 3D vehicle Tracking on Road Scenes **Supervisor:** Dr. Behrooz Nasihatkon **Referee:** Dr. Hamid Abrishami Moghaddam **Selected Courses**: Fundamentals of Computer Vision, Fundamentals of Speech and Language Processing, Linear Algebra, Engineering Probability, Engineering Mathematics, Numerical Analysis, Data Structures, Principles of Database Design, Assembly and Machine Languages(all grades 20/20) System Analysis and Design(19.57/20), Algorithm Design(19.5/20), Signals and Systems(18.5/20)
2016–2017	Pre-University, GPA:20/20 Allame Helli Pre-university School in Tehran
2013–2016	Secondary School, GPA: 19.66/20 Allame Helli Highschool in Tehran

Fields of Interests

General	Software Engineering, Artificial Intelligence, Computer Vision, Machine Learning, Natural Language Processing.
Specific	Mining Software Repositories, Crowdsourcing, Natural Language Representation Leraning, Natural Language Summarization, 2D & 3D Object Detection and Tracking, Medical image Segmentation.

Publications

2022 Intelligently Assessing Jupyter Notebooks' Code Understandability
Empirical Software Engineering Journal
Status: Submitted

Honors and Awards

Sep 2020–July 2021	**Dean's List** fourth year of study.
Sep 2018–July 2019	**Dean's List** second year of study.
Sep 2018–July 2020	Excellent Students **Scholarshhip**, from Kanoon Farhangi Amooozesh.
Sep 2017–July 2021	Full Tuition Fee **Waiver**, from K. N. Toosi University of Technology.

Academic Experience

Spring 2022	Teaching assistant, **System Analysis and Design**, Sharif University of Technology, Instructor: `Dr. Heydarnoori`
Fall 2020	Teaching assistant, **Advanced Programming with Java**, KNTU, Instructors: `Dr. Mehdi Esnaashari`, `Mahdi Zamanian`
Fall 2019	Teaching assistant, **Algorithms**, KNTU, Instructor: `Dr. Ali Ahmadi`

Language

Farsi (Native), English (Professional Proficiency)

TOEFL iBT
september-4 2021 **Total: 112** | Reading:**30** | Listening:**30** | Speaking:**24** | Writing:**28**

Technical Skills

Languages	Python, Java, C++, Javascript, Typescript.
Libraries	Keras, Tensorflow, Pytorch, OpenCV, scikit learn, Numpy, MNE, Braindecode, Matplotlib, Seaborn, Reactjs.
Programming	Object Oriented and Functional Programming, OOP Design Patterns.
Natural Language Processing	Text Categorization, Text Summarization, Text Generation, Machine Translation, Spelling Suggestion
Image Processing	Morphological Operations, Image Transformation and Registration.
Computer Vision	Real-time Multiple Object Detection and Tracking, Background Subtraction, Feature Extraction and Matching, Camera Calibration and Geometry.
Linux Distros	Ubuntu.
Concepts	Version Control Systems such as Git and GitHub, Agile Project Management with Scrum, Dynamic Programming, REST Web Services, MLOps.
IDEs	VScode, Pycharm, IntelliJ IDEA.

Projects

	Related coursework projects
January 2022	Persian News Summarizer ǀ Natural Language Processing
January 2022	Persian Spelling Correction ǀ Natural Language Processing
January 2021	Soccer player detection and classifying them into two teams using background subtraction, morphological transforms, and Deep learning models. ǀ Fundamentals of Computer Vision.
June 2020	Otimized Matrix Operations ǀ Digital System Design
June 2019	Implementing Voronoi diagram using Java ǀ Algorithm Design.
January 2019	Image blending using x86 Assembly ǀ Assembly and Machine Language
	Personal projects
November 2021	Seizure Detection using FCN and LSTM models.
September 2021	3D vehicle Tracking using Optical Flow and Geometry constraints.
January 2021	The colorectal nuclear image segmentation using U-net.

Work Experience

May 2021-July 2021	Computer Vision Intern at AImedic, Iran.
July 2021-Now	Machine Learning Engineer at AImedic, Iran.
	Mostly worked at EEG data preprocessing section and implementing preprocessing modules like applying filters and windowing.

Certificates

	Verified certificates from Coursera online MOOC platform.
August 2020	Machine Learning | `Stanford University`.
August 2020	Hyperparameter tuning, Regularization, and Optimization | `deeplearning.ai`.
August 2020	Convolutional Neural Networks | `deeplearning.ai`.
August 2020	Structuring Machine Learning Projects | `deeplearning.ai`.
August 2020	Neural Networks and Deep Learning | `deeplearning.ai`.
	Audits
December 2020	Introduction to Computer Vision | `Georgia Tech` | `Udacity Online Platform`
December 2020	Convolutional Neural Networks for Visual Recognition | `Stanford University`