

Ahmad Pourihosseini

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EDUCATION

MSc in Applied Computing [GPA 4.0]

University of Toronto, Department of Computer Science

Sep. 2021 – Jun. 2023 (expected)

BSc in Computer Software Engineering [GPA 3.97]

University of Tehran, Department of Software Engineering

Sep. 2015 – Feb. 2020

- Ranked 1st among all 110 computer engineering students

EXPERIENCE

Machine Learning Intern

Samsung AI Centre - Toronto, ON, Canada

May 2022 – Dec. 2022

- Working on an NLP project involving dependency parsing, transformers, and abstract meaning representations

Research Assistant

Machine Learning and Computational Modeling Lab at the University of Tehran - Tehran, Iran

Feb. 2019 – Feb. 2020

- Worked on improving an adversarial perturbation generator to train more robust models through adversarial training

Machine Learning Intern

Sensifai - Tehran, Iran

Jun. 2019 – Sep. 2019

- Set up an object detection pipeline on a piece of edge computing hardware called the Coral Dev Board using Tensorflow

Backend Development Intern

Boghche - Tehran, Iran

Jun. 2017 – Sep. 2017

- Developed a Telegram bot that received and registered customer orders in the central system using Node.js, which surpassed the startup's existing smartphone applications in terms of customer usage

COURSE PROJECTS AND EXTRACURRICULAR ACTIVITIES

Automatic Library of Congress Classification - Introduction to Machine Learning

Fall 2021

Applied state-of-the-art machine learning techniques, such as word embeddings and sequential models, to leverage previously unused data in classifying Library of Congress records, improving performance on the small available data ([see repository](#))

SuperMario - Advanced Programming

Winter 2020

A minimal C++ implementation of the famous SuperMario game, using SDL2 ([see repository](#))

Auto-Shakespeare - Neural Networks and Deep Learning

Fall 2019

An RNN with a character-level language model that generates Shakespeare-style writing using PyTorch ([see repository](#))

Real Estate Marketplace Web Application - Internet Engineering

Winter 2018

A full-fledged web application for real estate rental and sale using Java, React, and MySQL

NotMNIST Character Recognizer - Artificial Intelligence

Winter 2018

A neural network classifier for the [notMNIST](#) dataset, built from scratch with no external libraries ([see repository](#))

Atalk - Compiler Design and Implementation

Fall 2017

A compiler for an actor-based programming language, with MIPS as its target instruction set, using Antlr4 and Java

Introduction to Git and GitHub - Coursera

Sep. 2022

Covers topics such as branching, merging, pull requests, reverting changes, rebasing, and conflict resolution ([see certificate](#))

Deep Learning Specialization by DeepLearning.AI - Coursera

Dec. 2020

Sequence models, convolutional neural networks, hyperparameter tuning, and structuring machine learning projects ([see certificate](#))

AWARDS AND HONORS

- Vector Scholarship in Artificial Intelligence, Vector Institute May 2021
- Honourable Student Award, Supporter Foundation of the University of Tehran Nov. 2019
- Faculty of Engineering Award (FOE), University of Tehran 2016, 2017, 2018
- Ranked Top 0.3% in the Nationwide University Entrance Exam among 167,000 participants Jul. 2015

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, Java, C/C++
- Web development technologies: HTML, CSS, Node.js, React, MongoDB, SQL
- Machine Learning Libraries: PyTorch, Scikit-learn, HuggingFace, NumPy, Pandas, Matplotlib, Fast.ai, Tensorflow, NLTK
- Other Relevant Technologies: Linux, Git, Ansible, Adobe InDesign