Ahmad Pourihosseini

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EDUCATION

MSc in Applied Computing [GPA 4.0] — **Sep. 2021 – Dec. 2022 (expected)**
University of Toronto, Department of Computer Science

BSc in Computer Software Engineering [GPA 3.97] — **Sep. 2015 – Feb. 2020**
University of Tehran, Department of Software Engineering

- Ranked **1st** among all 110 computer engineering students

EXPERIENCE

Machine Learning Intern — **May 2022 – Dec. 2022**
Samsung AI Centre - Toronto, ON, Canada

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

Teaching Assistant — **Sep. 2021 – Apr. 2022**
University of Toronto - Toronto, ON, Canada

- Programming on the Web (CSC309) - hands-on lab sessions, grading assignments, meeting with students to discuss projects

Research Assistant — **Feb. 2019 – Feb. 2020**
Machine Learning and Computational Modeling Lab at the University of Tehran - Tehran, Iran

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

Machine Learning Intern — **Jun. 2019 – Sep. 2019**
Sensifai - Tehran, Iran

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

Backend Development Intern — **Jun. 2017 – Sep. 2017**
Boghche - Tehran, Iran

- Developed a Telegram bot that received and registered customer orders in the central system using the MERN solution stack, 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

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**
- Facultly 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, Git
- Machine Learning Libraries: PyTorch, Scikit-learn, HuggingFace, NumPy, Pandas, Matplotlib, Fast.ai, Tensorflow, NLTK