

Ahmad Pourihosseini

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EDUCATION

MSc in Applied Computing [GPA 4.0]

Sep. 2021 – Dec. 2022

University of Toronto, Department of Computer Science

- Specialized in natural language processing, with two courses on the subject and two in general machine learning.
- Conducted applied research at Samsung AI on flow graph parsing in the cooking domain.

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

Software Engineer

Mar. 2023 – Present

BlueCat - Toronto, ON, Canada

- Implementing new features and fixing reported bugs in the core software product, using Java.
- Pitched the idea for, planned, and implemented a tool to boost developer productivity by improving a commonly used workflow, earning positive feedback from various levels of the organization. Developed using Groovy and web technologies.

Machine Learning & NLP Research Intern

May 2022 – Mar. 2023

Samsung AI Centre - Toronto, ON, Canada

- Contributed to enhancing the performance of the state-of-the-art fine-grained dependency parser in the cooking domain, resulting in a 7.8 edge prediction F1 score increase, using HuggingFace and AllenNLP.

Teaching Assistant

Sep. 2021 – Apr. 2022

University of Toronto - Toronto, ON, Canada

- Programming on the Web - hands-on lab sessions, meeting with students to discuss projects, and grading assignments.

Machine Learning Research Assistant

Feb. 2019 – Feb. 2020

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

- Worked with a graduate student to enhance output diversity of an adversarial perturbation generator for better adversarial training.

Machine Learning Intern

Jun. 2019 – Sep. 2019

Sensifai - Tehran, Iran

- Set up an object detection pipeline on a Coral Dev Board, an edge computing device, using Tensorflow.

Backend Development Intern

Jun. 2017 – Sep. 2017

Boghche - Tehran, Iran

- Developed a Telegram bot using the MERN stack to receive customer orders, attracting more user engagement than the existing native iOS and Android applications.

COURSE PROJECTS AND EXTRACURRICULAR ACTIVITIES

SuperMario - Advanced Programming

Winter 2020

A minimal C++ implementation of the famous SuperMario game, using SDL2 ([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, written in Java and Antlr4.

Automatic Library of Congress Classification - Introduction to Machine Learning

Fall 2021

Collaborated in a team of four to apply advanced ML techniques like word embeddings and sequential models to enhance Library of Congress record classification performance by leveraging previously unused data ([repository](#)).

AWARDS AND HONORS

- Vector Scholarship in Artificial Intelligence, Vector Institute, \$17,500
- Faculty of Engineering Award (FOE), University of Tehran
- Ranked Top 0.3% in the Nationwide University Entrance Exam among 167,000 participants

May 2021
2016, 2017, 2018
Jul. 2015

TECHNICAL SKILLS

- Web development technologies: HTML, CSS, Node.js, React, MongoDB, SQL, Git
- Programming Languages: Python, JavaScript, Typescript, Java, C/C++, Groovy
- DevOps & Build Tools: Jenkins, Gradle
- Machine Learning Libraries: PyTorch, Scikit-learn, HuggingFace, NumPy, Pandas, Matplotlib, Tensorflow, NLTK