Amirmehdi Sharifzad

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Skills

- **Languages/Software:** Proficient in Python, C++, and Java, familiar with: Swift, MATLAB and octave
- **Libraries/Tools:** Git, Unix, Tensorflow, Scikit-learn, Pandas, numpy, scipy, pylab, Azure, Android Studio

Education

Honours Bachelor of Computer Science (BCS), Excellent Standing

University of Waterloo expected April 2021

Founder and the President of the Side project Club.

Machine Learning (Coursera), July 2017 - Sept 2017

Stanford University

Experience

PerkinElmer, Innovation Outpost, *Full Stack Developer(ML Stream)* May 2018 - Aug 2018

- Developing an **Artificial Neural Network** to automate feature selection for survival analysis.
- Working with the Cancer Genome Atlas Dataset and applying preprocessing and transformations to integrate the data with the ANN.
- Developing an interactive application that integrates the ANN and performs survival analysis.

University of Waterloo, Department of Statistics, *Part-Time Research Assistant* Jan 2018 - Apr 2018

- Research on **Deep Learning** techniques for implementing a **chat-bot** and improving its performance.
- Using **numpy, tensorflow**, and **seq2seq model** for the initial implementation.

Balute Inc, *Software Developer* May 2017 - Aug 2017

- Developed an **Android** app from scratch for easing the learning of an electronic Setar and Ukulele.
- Implemented Bluetooth connectivity to capture **MIDI** data from the instrument, and giving **real-time** feedback.
- Parsed Music-XML files using DOM (Document Builder) API, to create an interactive sheet music.
- Implemented pitch estimation to assist with vocal practices.

Projects

Aurora Feb 2018 - Apr 2018

- Aurora is an **ios** app developed using **swift**, **Core ML**, and **Azure Computer Vision API**.
- Aurora integrates voice recognition, voice to text, and computer vision techniques to describe surroundings, recognize and remember faces, read text and take notes for visually impaired people.

Sudoku Solver June 2017 - July 2017

- Implemented a program in **Python** to solve any Sudoku puzzle as a project for the Udacity's Artificial Intelligence Nanodegree online course.