

ADITYA (ADI) SHARMA

Employment

Citco Fund Services

Software Engineering Intern

Toronto, ON

Jan. 2018 to April 2018

- Designed and developed an end-to-end web application that monitors and records the health of various APIs, URLs, and services, records the results and alerts the service owner in case of malfunction using JavaEE, Spring MVC, Hibernate, SQLServer, Maven and Tomcat
- Implemented caching, logging and multithreading features to make the web application more reliable and stable
- Designed, developed and shipped a RESTful backend API from scratch based on business requirements using object oriented design to be consumed by various third-party clients using C# and Entity framework
- Fixed and shipped various small bugs on the front-end in the main client-facing web application supporting the company using React with Angular dependency injection.

Shaw Communications

Software Engineering Intern

Calgary, AB

Jan. 2017 to April 2017

- Designed and implemented various features on the front end for Shaw's landing pages with regards to the Phone Plan using Angular, HTML/ CSS
- Decreased double AA accessibility issues according to WCAG ARIA standards on the entire platform by 48% across the entirety of Shaw's main online platform and hence saving about \$15,000 in fines
- Experimented with Tableau for visualize customer base in Calgary and plan for customer acquisition and growth
- Received highest rating possible of Outstanding from employer

Selected Projects

MyoVision

- Designed, develop a system that plans workouts and tracks the number of push-ups performed by an individual over a given frame of time using the Myo armband
- Analyzed the data gathered via the various sensors to perform relevant statistics over the quality of push-ups
- Recommended ways of improving posture based on the statistics collected

Various Kaggle (Data Science) Competitions

- Titanic: Built a machine learning model to make predictions about what sort of people are likely to survive from the tragedy
- Real Estate: Built a Housing price predictor to predict the price of houses based on various features
- Created a World Cup prediction model to determine who is going to win the FIFA World Cup

Sentimental Analysis

- Scrapes twitter for a given topic/conversation
- Analyses the twitter sentiment(emotions associated and polarity) of an user on a given topic/conversation
- Stores the result in a relevant CSV file and displays the results in a clean UI

Awards

Loran Scholar's Foundation · Loran Scholar

June 2016

One of 31 Recipients selected out of 4500 to receive the Loran Scholarship, Canada's most comprehensive scholarship offered on the basis of leadership, character, service and grit

University of Waterloo · Sanford Fleming Foundation Scholarship

2017

Awarded for winning the Waterloo Engineering Competition competing against students ranging from first year all the way to fourth year. Got a chance to represent University of Waterloo in the Ontario Engineering Competition in Ottawa, Canada.

ECHacks 2017 · Wolfram One Award

Nov. 2017

Awarded to the most promising, innovative and potential-worthy hack (MyoVision)

Education

University of Waterloo

Bachelor's of Applied Science Electrical Engineering
2022

Coursera, edX, Udacity, Lynda

Various Courses Machine Learning, Data Science,
Software Development
Introduction to Machine Learning
Neural Networks

Contact

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Skills

LANGUAGES :

Python

C/C++

Java

SQL

Javascript

R

HTML/CSS

C#

VHDL

FRAMEWORKS/TECHNOLOGIES

Tensorflow

Keras

JavaEE

Spring

Hibernate

scikit-learn

AWS

numpy

pandas

D3.js

Involvement

Watonomous (Self-Driving Car Student Design Team)

UW Data Science Club

UW Badminton Club

Activities

When I'm not tinkering with/learning about new tech or in classes, you can probably find me:

- Volunteering; I find great joy in giving back to the communities that I am passionate about
- Reading/Listening to cool and interesting books and podcasts.
- Playing badminton/ table-tennis