HongKun Tian

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Skills

Programming Languages

Python, Java, C/C++, C#, Javascript, OCaml, MIPS Assembly Language, Bash, PostgreSQL

Libraries & Frameworks

scikit-learn, PyTorch, Matplotlib, NumPy, Pandas, .NET, React, Gatsby, HTML, CSS, Sass, Node.js

Tools & Platforms

Git, Netlify, Azure DevOps, LATEX

Languages

English, French, Mandarin

Completed Courses

- · Algorithms & Data Structures
- · Applied Machine Learning
- · Database Systems
- Discrete Structures
- · Fundamentals of Computer Graphics
- · Linear Algebra
- Numerical Computing
- · Operating Systems
- · Probability
- Programming Languages & Paradigms (functional programming)
- Software Design
- · Statistics

Experience

UMAknowSoftware Development Intern

Montreal, Canada

Jun. 2019 - Aug. 2019

C#, .NET, VISUAL STUDIO, HTML5, CSS3, JAVASCRIPT, AZURE DEVOPS

- Developed a server-side REST API for Cloudockit, a cloud environment diagram generator for AWS, Azure and GCP, using .NET Framework, through which end consumers can trigger document generation.
- Built an interactive page using HTML, CSS, Javascript through which end consumers can visualize and interact with the API's endpoints.
- Developed automated acceptance tests that detected irregularities and unwanted changes within template documents and generated documents using Aspose file management APIs, improving the robustness of code deployment.
- · Participated in various Agile Scrum methodologies.

Projects

Projects @ McGill Applied Machine Learning Course Jan. 2020 – Ongoing PYTHON, SCIKIT-LEARN, MATPLOTLIB, SEABORN, NUMPY, PANDAS

- Project 1: Implemented Logistic Regression and Naive Bayes to classify targets from datasets acquired from UCI Machine Learning Repository.
- 。 Built Logistic Regression and Naïve Bayes models from the ground up.
- 。 Investigated feature engineering techniques on datasets to improve performance.
- Conducted experiments, such as testing differing learning rates, measuring their corresponding accuracies as a function of the size of the training size.
- · Project 2: Investigated various multi-class classification models on two textual datasets
 - Preprocessed datasets by vectorizing terms and applying TFIDF weighing.
 - Investigated performance of Logistic Regression, Decision Tree, Support Vector Machine, AdaBoost, and Random Forest models from scikit-learn on both datasets.
 - Performed hyperparameter tuning using randomized search with cross validation to achieve best possible performance for each model.

Personal Portfolio Website @ www.hongkuntian.com Jan. 2020 – Ongoing REACT, GATSBY, SASS, NETLIFY, GRAPHQL

MindBook @ ConUHacks 2020

Jan. 2020

REACT, CSS3, IBM TONE ANALYZER, NODE.JS, FIREBASE

Summary: Journal logging web app that performs sentiment analysis and provides recommended activities based on the predictions.

- · Built the client-side UI using React and CSS.
- Hooked up Firebase to our Node.js backend to save journal entries from users.
- Implemented IBM Tone Analyzer API and business logic to provide suggestions to users.

TravelCC @ Hack The North 2019

Sep. 2019

JAVA, FIREBASE API, XE CURRENCY DATA API

Summary: Automatic foreign currency conversions through a smartphone's camera.

• Implemented API calls to Firebase API and XE Currency Data API.

NLPure @ McGill CodeJam 2018 - First Place Overall

Nov. 2018

KERAS, SCIKIT-LEARN, REACT, NODE.JS

Summary: Text toxicity detection built using Keras.

Education

McGill University

Montreal, Canada

Bachelor of Science - Honours Computer Science

Sep. 2018 - Exp. May 2021

Cumulative GPA: 3.64/4.00

Marianopolis College

Montreal, Canada

Diploma of College Studies – Pure and Applied Sciences

Sep. 2016 - Jun. 2018

Global R Score: 35.662

 Dean's List (All semesters): Overall grade average of 85% and above and completion of courses required by the program for that semester.