

Tianle Wang

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Skills

- Programming** C/C++ (STL), Javascript/Typescript(React), Java, Python(Django, Django REST), R(tidyverse, glmnet, ISLR, etc.), HTML/CSS
- Miscellaneous** Shell (Bash), \LaTeX (Overleaf/Markdown/RMarkdown), Microsoft Office, Git, etc.
- Soft Skills** Teamwork, Problem-solving, Documentation, Self-learning, etc.
- Develop Tools** Vscodex, Vim/Neovim, IntelliJ, Pycharm, R-Studio
- Data Structure** Graph, BST, AVL Tree, Hash, Binary Index Tree, etc.

Education

University of Toronto

Toronto, ON

HBSc in Mathematics and its Application on Statistics and Computer Science

Sept 2020 - Sept 2023

- Focus Courses:** Linear Regression, Statistical Theory and Methods, Statistical Computation, Probability, Computers and Society, Object-oriented Programming and Software Design, Software Tools and System Programming, Data Structure and Algorithm Analysis

Projects

Puzzle Solver and Generalizer

Toronto, ON

University of Toronto

Mar 2021 - Mar 2021

- Built basic puzzle classes by basic oop design concept and used bfs/dfs algorithm to solve such as sudoku, word finder with language python.
- Used tkinter to build GUI and generalize game. Received 100/100

Pokémon-like Word game

Toronto, ON

University of Toronto

Nov 2021 - Dec 2021

- Designed CRC cards based on clean architecture, and coded classes, methods and functions based CRC cards followed SOLID principles in Java.
- Used variety of design patterns (factory, adapter, memento, etc.) to modify classes to be more functional and lightweight game.
- Used JUnit to test each single function, Swing to build GUI, and gson to store players' data. Graded 85/100

Linear Regresssion Model on Gamer Statistics

Toronto, ON

University of Toronto

Feb 2022 - Mar 2022

- Did literature review and used EDA(Exploratory Data Analysis) to do data clean from Kaggle
- Used variety statistical methods(t-statistics, f-statistics and ANOVA, residual plots, transformation, etc.) to select, verify and build the model.
- Summaried and interpret the problematic observations and model, and present the model. Graded 80/100

Web Sever

Toronto, ON

University of Toronto

Mar 2022 - Apr 2022

- Established server that allow severnal clients communicate with over sockets by C.
- Followed using select, pipe and other system calls that implement simultaneous communication with Linux Kernel. Graded 95/100.

Wordpress Blog

Toronto, ON

Personal

Jan 2022 - Present

- Established LAMP(Linux, Apache, MySQL, PHP) suite on the cloud server and then used Wordpress framework to deploy web blog page.
- Customized theme style by CSS. Has thousands of hits.

React Web - Course Notes, see <https://note.yorafa.com>

Toronto, ON

Personal

Feb 2022 - Present

- Used React framework (create-react-app) with mui desgin to create web pages.
- Use react-markdown to render posts in markdown format as content.
- Built and deployed static web page by using Github Action. Frequently used by me and some of my classmates.

React Web - UTLeetcoder, see <https://coder.xfttech.org/>

Toronto, ON

Group Project

Dec 2022 - Present

- Used axios and Leetcoder api catch registers statistics by nodejs.
- Used React framework (create-react-app) with antd desgin to render and visualize users statistics.
- Used Github Action generated static web page and deployed on Github Pages on daily schedule.
- Over 40 users use this website to track their statistics

Django REST API - UTodo, see <https://github.com/XFTTech/UTodo>

Toronto, ON

Group Project

Jan 2023 - Present

- Used Django framework and Django REST framework to build a REST API server
- Used Heroku deploy the server and use SQLite as database

Achievements

2023 **Leetcode Knight**, Top 5.06% of site, see profile <https://leetcode.com/Yorafa/>