

Ryan Fei

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SKILLS

Languages: Python, Javascript, Java, HTML/CSS, C

Libraries: pandas, NumPy, Matplotlib, seaborn

Technologies: Git, conda, Visual Studio Code, Visual Studio, Photoshop

Frameworks: React

PROJECTS

Wordle Visualization | *Python, pandas, matplotlib, seaborn*

Jan 2024 – Present

- Exploratory data analysis project to manipulate and visualize a Wordle tweet dataset
- Manipulated data set to obtain date time data, Wordle id, and number of attempts per Wordle
- Visualized data such as Wordle tweets per day, Number of attempts per Wordle, Wordle average results by guess number, Most common correct first guess letters, through bar, pie, and heatmap plots

Personal Website | *Javascript, HTML, CSS*

Dec 2023 – Present

- Developed a personal portfolio website to showcase my resume, skills, and projects
- Implemented responsive design, and features such as a hamburger menu, text & scrolling animations, and a working contact form
- Built using only native Javascript, HTML, and CSS without any frameworks
- Deployed via Github Pages

Frogger Game | *Java, Java Swing*

2021 – 2022

- Developed a simple Frogger game clone based on the popular game Frogger
- Built with Java and Java Swing for GUI component
- Demonstrated knowledge in OOP, Classes, Polymorphism, Inheritance, Global Variables and Scope
- Showcased an understanding of game design mechanics, such as movement, collisions, and increasing difficulty

EXPERIENCE

Teenage Tutors

Jan 2023 – Present

Tutor

- Tutored local high school & middle school students in-person and virtually, in the subjects of math, science, and computer science
- Developed mentorship skills, and created individual learning plans

Go Green Youth Centre

Mar 2023 – Aug 2023

Summer Camp Programming Instructor

- Developed and oversaw programming lessons using Tynker, with 1 other staff member for a summer camp that saw 200+ students aged 7-14 daily in an underprivileged community
- Taught campers block code, Python, and Javascript, catering to various ages and skill levels
- Hosted an end of camp hackathon for campers, where every camper showcased a final project or game

March Break Camp Staff

- Tutored 30+ high school and middle school students computer programming skills with other staff
- Encouraged coding literacy, and hosted final sports day volleyball tournament, setting up & refereeing games

EDUCATION

University of Waterloo

Waterloo, ON

BCS Bachelors of Computer Science

Sep. 2023 – May 2028

Relevant Courses: Designing Functional Programs (96%)

Marc Garneau Collegiate Institute

Toronto, ON

TOPS Program (Talented Offerings for Programs in the Sciences)

Sep. 2019 – Jun 2023

Top Six Average: 98%