

Kyle Tu

SOFTWARE ENGINEER

☎ (778) 886-5125 | ✉ kyle.tu@outlook.com | 🏠 ktu-bot.github.io | 🐙 ktu-bot | in kyletu

Skills

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

Frameworks & Tools OpenCV, JQuery, NumPy, Android, JUnit, JSON, SFML, JavaFX, FXML, Git, Command Prompt

Projects

PDF Scanner | Github

PYTHON, OPENCV

- Utilized OpenCV to learn and gain a stronger grasp for computer vision
- Introduced to higher quality scripting and automating with Python
- Applied warping and image processing techniques to read PDF

Volleyball Stat Tracker | Github

JAVA, ANDROID

- Developed to use as a coaching aid to track stats for each player, enabled efficient reviews through data
- Saved a minimum of 30 minutes per game and freed up an extra coach
- Leveraged stats to efficiently practice, resulted in winning districts, cities, and placing top 10 in provincials

My Portfolio | Link

JAVASCRIPT, HTML/CSS, JQUERY

- A static website developed as my portfolio and to strengthen HTML/CSS skills
- Utilized JQuery library for HTML/CSS manipulation to go with effects and animations

Visual Fitness Journal | Github

JAVA

- Develop to move away from multiple spreadsheets worth of diet data
- Enables visual caloric tracking with easier implementations, resulting in a loss of 3 % loss in body fat, loss of 15 pounds, and while still gaining a total of 75 pounds from the major lifts
- Apply thorough testing with 100% JUnit test coverage during testing phase
- Wrote a serializer and deserializer using JSON

Top Down Racing Game | Github

C++

- Simple top down racing game made with SFML library for C++ graphics
- Learned and implemented SFML library for basic C++ game development

Virtual MIDI Keyboard | Github

JAVA

- Made as a tool to replace a physical MIDI Player, modelled after one used in a music technology class.
- Utilized Java sound library for sound and MIDI data
- Optimized object oriented programming for MIDI to switch between 128 different instruments on 25 keys and 8 drum pads

Experience

Volleyball BC

Vancouver, BC

TOURNAMENT COORDINATOR & HEAD COACH

March 2020

- Head coach for 3 years, led the team to 6 tournament wins thus far. Awarded student coach of the year
- Maintain clear and concise communication from administration to the participants
- Organize and document game data for each tournament and game for future reference in practices and reviews

Education

University of British Columbia

Vancouver

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Expected 2023