Raymond Kong

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Education

Simon Fraser University, Burnaby BC   Sept 2022 - Present
- Bachelors in Computing Science

Technical Skills

- **Programming Languages:** Python, Java, JavaScript, SQL, C++, C, R
- **Frameworks/Libraries:** Spark, Spring, React, Firebase, MongoDB, NodeJS
- **Software:** Visual Studio, Jupyter Notebook, SQL Server, Git, RStudio, MATLAB, Docker

Projects and Technical Experience

Segmented Medical Image Viewer Website   Sept 2023 - Dec 2023
- Implemented Meta's segment-anything model (SAM) to work on 2-D DICOM images for computer-aided diagnosis
- Created a backend with Flask to segment and upload images to Firebase upon user upload
- Utilized team and pair programming during SAM integration to improve code quality and understanding among team members

2-D Top-down game in Java   Sept 2022 - Dec 2022
- Developed a single player game with Java Swing that uses a singleton pattern for running the game and abstract factory for design
- Utilized Maven and JUnit for build automation and unit testing to run and test the game
- Implemented the A* pathfinding algorithm for enemy pathing to create an AI for the game
- Collaborated and communicated with three other team members using Git and Discord to separate work and solve tasks efficiently

Workout Tracker Website   August 2023 - Oct 2023
- Created a full stack website that keeps track of a user's workouts using React by adding, deleting, and displaying exercises
- Built a sign-in page that stores user info into MongoDB with passwords hashed using bcrypt
- Used local storage and JSON Web Tokens to keep users logged in and disabled functionality for signed-out users by redirecting them to the sign-in page

Work Experience

Lifeguard/Instructor   July 2022 - Present
City of Vancouver, Vancouver BC
- Manage and teach classes of 4-6 kids by giving personalized and concise feedback to help improve their skills
- Supervise and create a safe and fun environment by enforcing rules and regulations
- Adapt and solve situations by attending to emergencies and administering first aid to help people in distress