

John (Junseong) Kim

☎ (778) 990-1550 | ✉ junkim0109@gmail.com
in [LinkedIn](#) | [GitHub Repository](#) | [Personal Website](#)

Skills

Programming / Framework	Tools
<ul style="list-style-type: none">• C / C++• Python• SQL – SQLite, MySQL• HTML5 & CSS• OpenGL• TensorFlow / Keras / Tkinter• VHDL / Assembly	<ul style="list-style-type: none">• Git / GitHub / GitLab• Confluence• SolidWorks• MATLAB• Visual Studio / Eclipse / XCode• Windows / Linux Ubuntu / MacOS• MS Suite / Google Suite

Technical Work Experience

Technology Strategy: Engineering Co-op Student
TELUS, Burnaby, BC

Aug 2019 – April 2020

- Transformed business requirements into technical designs for maximized workflow within Confluence using Atlassian tools and add-ons in an agile project environment
- Improved usability and accessibility for engineers and technicians by transitioning existing documentation libraries from Sharepoint to Confluence
- Organized and resolved tickets and queries from users effectively as a Confluence administrator
- Outlined and created training processes for teams and users to aid the onboarding process

Junior QA
CTDI, Richmond, BC

Jan – April 2018

- Developed a test case along with a QA senior for new equipment to identify common bugs and corresponding troubleshooting practices
 - Ensured product quality met consumer-ready requirements through testing and debugging methods
 - Participated in the operation and logistics throughout the product refurbishment cycle
-

Education

Bachelor of Applied Science | Systems Engineering

Acquired in May 2021

- Simon Fraser University | Burnaby
-

Personal Projects

Python Database Application - Python, SQLite, Tkinter

June – Aug 2021

- Created a python application to store data using Tkinter to design a GUI and SQLite to store the database
- Implemented a tree view to display the information and interact with the data stored in the database directly using the GUI

Portfolio Website – HTML, CSS, Javascript

May – June 2021

- Designed a unique website hosted via GitHub to introduce myself and to demonstrate some of my projects
- Implemented animations and responsive sizing to make the website dynamic and interactive

Academic Projects

Photoacoustic Imaging Tomography (VALIS) Capstone, SFU

**May – Dec 2020
(MATLAB, Gitlab, G-Suite)**

- Aimed to design an affordable photoacoustic imaging (PAI) system, specialized for imaging vasculature to bring to a wider market
- Integrated LEDs, amplifying circuit with filters ultrasound transducer and safety sensors to create and receive an amplified signal from the imaging subject
- Implemented a GUI in MATLAB to interact with the data collected from the transducer to create an observable B-mode image
- Carried out weekly team meetings and documented each process throughout the project using Google Docs and GitLab

Object Classification using CNN Model Multimedia Communications, SFU

**Sept-Dec 2020
(Python, Keras/Tensorflow)**

- Investigated and reported the accuracy and efficiency of object classification in different colorspace including YUV, RGB and HSV
- Trained the Convolutional Neural Network (CNN) with pre-existing CIFAR-10 dataset to accurately classify test images from ten different classes of objects
- Developed a convolutional neural network using Keras/Tensorflow to classify objects with images

Route Planner for Practical Ride-Sharing Applications Decision Making in Engineering, SFU

**May – Aug 2019
(C++, Visual Studio, OpenGL)**

- Designed a program implementing Yen's algorithm in C++ to calculate variables including finding N number of shortest paths in a nodal network and make the corresponding utility maximizing decision
- Simulated a real-world application of a decision agent replicating a ride-sharing platform through OpenGL
- Investigated and recorded additional future applications and improvements to reflect more variables that can affect ride-sharing applications