Lucky K.B. Kim

The University of Toronto. 2017 - 2022

Bachelor's in applied science in computer & electrical engineering

· +1 (604)-726-7281 🕾

luckykbkim@gmail.com

linkedin.com/in/kyubumkim/

• luckyu.me 🙋

LANGUAGES

WORK EXPERIENCE

C/C++

Python

Cafeware Francisco International Internatio

Software Engineering InternJava Springboot, AWS, SQL, Python

Toronto, Canada 09/2020 - 09/2021

- Improved the throughput of data streams of a large database between the client and server.
- Provided an accessible data transfer object which was cross-compatible with a variety of microservices using APIs and AWS.
- Architected and modified SQL relational databases to optimize for the company's workflow.
- Developed a slack webhook for sending messages to the corresponding people when GitHub updates occurred.

TECH

Java

SQL

Verilog

Korean

Assembly

Springboot

Express

Postgres

Mongo FPGA

Unity

AWS

QT

MATLAB

PvTorch

Modelsim

Node

JavaScript

HTML/CSS

PROJECTS

Git Signal Processing Educational Tool

C++, QT

 Developing an educational tool to teach students signal processing concepts through audio and visual feedback from synthesized waves.

- Created the method for playing sounds and audio files in real time.
- Integrated wave generation library to the environment.

Food Detection and Classification AI Model

03/2020 - 04/2020

09/2021 - Present

Python, PyTorch

- Produced a machine-learning algorithm that classifies pictures of food with the use of transfer learning of various convolutional neural networks.
- Revamped the algorithm to a region-based convolutional neural network so that our model can detect multiple foods in an image.
- Achieved an accuracy of 70%.

RELEVANT CONCEPTS

Basic Geographic Information System

01/2019 - 04/2019

03/2019 - 04/2019

C++

FPGA, C

 Planned and created a multi-city map application with the OpenStreetMap API and the EZGL graphical interface library.

- Implemented Dijkstra's algorithm and optimized it using A* heuristics and applied it to improve the traveling salesman problem.
- Refined the salesman problem with multithreading.

OOP

Data Structures

Algorithms

Multithreading

Synchronization

Machine Learning

INTERESTS

Playing sports

Production & DJ

Art Vim Basic Platformer Game

- Developed a basic outline of a platformer game with a partner with the use of the Intel software program, the Monitor Program, and an ARM processor chip, DE1-SoC.
- The game is compatible with the keyboard and flexible for further implementation.
- Added physics such as gravity and collision detection.