

Yanushka Gnanamuttu

Computer Engineering Graduate

Contact

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About

Seeking Full Time Software Developer Position

Interested In: Embedded Software, Code Acceleration and Artificial Intelligence

Skills

Languages

- C/C++
- Python
- Java
- XML
- Assembly
- VHDL

Platforms/Tools

- Git
- ROS
- OpenCV
- Boost
- Linux
- CMake
- CUDA
- Google Cloud Engine

Education

University of Ottawa
B.A.Sc. in Computer Engineering
Sept. 2015 – Apr. 2019

Activities

- Ottabotics (Robotics Team)
- Engineering Student Society
- Rock Climbing
- Canoeing & Camping
- Violinist

Work Experience

Software Analyst Intern

Thales R&T, Toronto | May 2018 – Aug. 2018

- Assisted with the implementation of autonomous train positioning solutions and vehicle detection
- Improved the performance of the vision code through multithreading and targeting the GPU
- Enhanced the image quality of the camera, and implemented real-time adaptive lighting

IT Developer Intern

TD Bank, Toronto | June 2017 – Sept. 2017

- Created and deployed automated scripts using Selenium and JUnit to notify a team of developers when errors exist within TeamSite
- Applied Agile Methodologies

Projects

Intelligent Distribution Panel (IDP) Simulator

C | Jan. 2019 – Present

- Developed an RTOS application that controls the systems capable of monitoring the electric sources of energy
- Project includes the use of multi-threading, synchronization primitives, and interrupts

Real Time Object Tracking

Python, C++ | Sept. 2018 – Present

- Researched and implemented technologies for neural networks to be used on a Jetson platform for real time object tracking
- Optimized the neural network, generating an 8x performance speed-up from the use of the GPU
- Utilized the Jetson's camera through GStreamer and OpenCV

RoboBoat

ROS, Python, XML | Jan. 2017 – Present

- Co-founder of the Ottabotics robotics team
- Developed an autonomous robotic boat that can navigate through challenges using sensor data
- Created sensor nodes for the GPS, IMU and temperature sensors