TIMOTHY TONG

🌐 timothytong.com

 github.com/timothytong

UWATERLOO
3A Comp. eng

in linkedin.com/in/kyttong

@ timothykytong@gmail.com

PROGRAMMING

Swift
Ruby
Java
Python
Bash
C++
C#
Javascript
HTML / CSS
VHDL

TECHNOLOGIES

Git
iOS
Linux + headless
Rails
Postgres
vim
Oh-my-ZSH
EagleCAD

AWARDS

Dean's Honour List:
 1A through 2B
First in Class:
 1B, 2B

PERSONAL INTERESTS

Aerial Robotics
Computer Vision
Arduino -> IoT
PCB design

EXPERIENCE

APPLE INC. — 08/15 – 12/15
Software Engineering Intern | CUPERTINO, CA
- Built a dashboard with SWIFT 2 that's been deployed to **100+ test units** in multiple labs and factories
- Built a **linux backend server** from scratch with NGINX, RUBY ON RAILS, and POSTGRES
- Developed multiple PYTHON and RUBY **automation scripts** with algorithms to ensure chronological order of uploaded test files before serializing them into database
- Took on roles of a project manager and did self **project management** including holding weekly meetings and occasional design reviews with parties of concern

PIVOTAL LABS — 01/15 – 05/15
Agile Developer | TORONTO, ON
- Worked on the **AngularJS front end** of a banking web app for a major Canadian bank
- Worked on the **Android** version of Pivotal Tracker, a project management system
- Practiced pair programming and TDD; participated in standups and scrums

VELLOAPP INC. — 04/14 – 08/14
iOS Developer | TORONTO, ON
- Built a video slider for users to import and upload videos, with additional functionalities to trim, crop, and rotate.
- Responsible for nearly all app features from v2.03 through v2.10
- Worked on push notifications

PROJECTS

FLASHKARDS — https://appsto.re/i6Lp69X
Memorization Tool | IOS & COREDATA
- An app that enables users to create and customize flashcards with both text and images
- Applied concepts of **relational databases**

GPS/PIC Interface Circuit — https://upverter.com/b321234/86fc2e03219da718/1/
Printed Circuit Board | EAGLECAD
- A PCB designed for the University of Waterloo Aerial Robotics Group design team to interface a GPS chip with a PIC microcontroller

OPENCV TRACKING — https://github.com/timothytong/OpenCVTracking
Computer Vision | C++, OPENCV, WIP
- A C++ software application that uses the **OpenCV** library to enable users to track objects with a specific colour
- Currently attempting to implement a cursor that moves with objects being tracked