

NEHAL KANETKAR

Languages

Swift
Objective C
C++
Python
JavaScript

Tools

Photoshop
Xcode
GIT

Libraries

CoreLocation (iOS)
CoreGraphics (iOS)
Apple Maps
Google Maps API's
THREE.js
WebGL

I am currently in my 3A term at the University of Waterloo studying Systems Design Engineering. I'm a pilot, developer, aspiring systems design engineer and a life long learner. In my free time, I like to take photographs, fly somewhere for lunch or just go for a swim. Recently, I have been exploring astronomy and astrophotography, sparking a few personal projects. Whatever I am doing, I always like taking on new challenges and discovering new things!



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EXPERIENCE

IOS & RAPID PROTOTYPE DEVELOPER

CANON INNOVATION LABS

Worked as the lead iOS developer on Canon's first production post-capture-experience application. Designed and implemented prototypes in the photography space.

JAN 2016 - APR 2016

R&D SOFTWARE DEVELOPER

THE WEATHER NETWORK

Developed a working a vector radar implementation on web and mobile platforms. Exposed to: Apple Watch, Android TV, WebGL and THREE.js libraries.

SEP 2014 - DEC 2014

RESEARCH ASSISTANT

UNIVERSITY OF WATERLOO

Conducted research with MASc student Samuel Lien and Dr. Jonathan Histon on Data Synchrony in aviation. Helped develop and test pilot and ATC interfaces.

AUG 2014 - APR 2015

PROJECTS

FLIGHT TIME

Developed an application to log airtime and flight times using CoreLocation in iOS. Created and tested the algorithm to log airtime accurately. Written entirely in Swift.

APP DEVELOPMENT

STAR TRACKING MOUNT

Designed and implemented a tracking mount to reduce star trails when taking exposures of stars. Used an Arduino and stepper motor to rotate mount with the earth.

HARDWARE DESIGN

FLIGHT VISUALIZATION

Scraped flight position data using Python to create a visualization of Porter Airlines flights during one day. Created a layer on top of Google Maps to display the flights

DATA VISUALIZATION

PILOT

Canadian private pilot with night rating. Approximately 125 hours of flying time. Working towards an IFR Rating

PRIVATE PILOT

EDUCATION

BASC : SYSTEMS DESIGN ENGINEERING

UNIVERSITY OF WATERLOO

Relevant Courses: Data structures and algorithms, Human factors in design, Digital circuits, Analog circuits

SEP 2013 - APR 2018