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 an iOS developer on Canon's first production post-capture-experience application. Designed and implemented prototypes within 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 algorithm to log airtime accurately and efficiently.

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 PLANNER
Generated a flight planning program to output highly realistic flight plans for flight simulation. Used aircraft manuals to get fuel burns and specifications.

APP DEVELOPMENT

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

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

SEP 2013 - APR 2018