

Nehal Kanetkar

Pilot. Developer. Aspiring Engineer

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Skills

- Highly experienced front-end developer with 2 years production experience developing web and iOS apps
- Deep knowledge of Swift, reactive coding with Swift, Auto Layout and Interface Builder through the development of multiple apps
- Clear and effective communicator through experience flying planes and working in team environments
- Excellent multi-domain problem solver from multiple design projects and personal projects

Languages & Tools

Swift, Objective-C, Objective-C++, Python, MATLAB, JavaScript, HTML, CSS, C++

Git, Charles, Sketch, Xcode, Photoshop, CircleCI

OSX, Windows

Education

BASc: Systems Design Engineering

University Of Waterloo
Sep 2013 – Apr 2018

Relevant Courses: Software Design, Data Structures & Algorithms, User Centred Design Methods, Human Factors, Digital Circuits, Analog Circuits

Pilot

Waterloo Wellington Flight School
Jun 2013 – Present

Licensed Canadian Private Pilot with a night rating and 135 hours of flying time. Working towards a Commercial Pilot License.

Experience

iOS Developer & Co-Founder

Touchdown · May 2015 – Present · Waterloo, ON

- Developed an end-to-end solution for pilots to log their airtime and flight times seamlessly using mobile devices
- Created and extensively tested the algorithm to log airtime accurately using unit tests, flight simulator and in plane tests

iOS Developer

Compass Real Estate · May 2017 – Aug 2017 · New York, NY

- Designed and implemented a novel solution to download and inform users of nearby listings via geo-fenced notifications, without requiring additional user permissions
- Rewrote all unit tests in the app eliminating 2 dependencies on the codebase
- Re-architected the Compass Markets app, leveraging MVVM in Swift, increasing testability of the app by 75%

Lead iOS Developer

Nanoleaf · Aug 2016 – Mar 2017 · Toronto, ON

- Implemented an in app troubleshooting flow reducing the number of support calls by 20%
- Established the use of feature documents to clearly communicate needs between business, design and engineering teams
- Designed and developed features using Sketch, Objective-C and Swift

iOS & Rapid Prototype Developer

Canon Innovation Labs · Jan 2016 – Apr 2016 · Waterloo, ON

- Led all developers following a Git flow structure for branching and releases to ensure bugs were isolated
- Built prototypes to help improve the post capture experience with different types of media
- Prototyped with a variety of technologies including OpenCV (Objective-C++), D3.js and Python
- Worked in 2 week sprints to make prototypes within the photography space

Projects

Star Tracking Mount

- Designed and implemented a tracking mount to reduce star trails when taking long exposures of the night sky
- Used an Arduino and stepper motor to rotate the mount at the same angular velocity as the earth

Curling Broom Handle Optimization

- Developed an optimization algorithm based on a Box-Benken optimization to reduce the amount of strain in the wrist when sweeping a curling rock
- Used the algorithm to design a prototype curling broom handle