




# Allyson Aberg

Systems Design Engineering, 2021

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## Skills

**Development:** Swift, Objective-C, Java, Javascript, C++, HTML/CSS, SQL

**Tools:** Xcode, Android Studio, Git, SolidWorks, Photoshop, Sketch

**Design:** Wireframing, Mockups, Prototyping, Branding, Iterative process, Logo and Graphic design

## Employment

I 2017 I - Nascent Digital

### • Mobile Developer

-Developed an iOS health messaging app for a corporate client, using **Swift** on a 3-person team.

-**Led development** of a secondary iOS application that reads from and writes to Apple's Health app via the **HealthKit API**, increasing testing and debugging **efficiency by 300%**.

-Utilized **Cocoa Pods**, **PromiseKit** and **HTTP** requests to aggregate user health data from an internal **cloud-based** database.

-Used the **Pubnub** SDK and **APNs** (Apple Push Notification service) to facilitate realtime messaging and user authentication.

-Utilized **UIKit animations** to create loading screens and storyboard transitions.

-Worked directly with clients to ensure complete satisfaction throughout the development process.

I 2014 -2016 I - Mobile Oral Health Professionals

### • Web and UI/UX Developer

-Designed and implemented a **responsive** website (mobileoralhealth.com) using HTML, CSS, Javascript, and jQuery.

-Generated wireframes and mockups for an iOS app aiming to improve the company's relationship with customers through its intuitive design.

## Awards & Accomplishments

I 2016 I - University of Waterloo

### • President's Scholarship of Distinction

Awarded for a 95+ admission average.

I 2016 I - SHAD Valley International

### • SHAD Alumni

Completion of the Shad Valley Program and Team Leader at the Entrepreneurship Cup.

## Projects

I 2017 - Present I

### • Vision

-A **Node.js** web app that helps users to design custom-fit 3D printed eyewear.

-Utilized a **facial landmark detection** API (Kairos), to compute facial measurements based off of front, top, and side-view images.

-Integrates specifications into a **Solidworks** model, allowing the frames to be printed.

I 2017 - Present I

### • ScaryBot

-A Facebook Messenger chatbot, providing users with a curated list of scary stories via the **Youtube API**.

-Utilized **MongoDB** to store user settings.

-Implemented **Natural Language Understanding** and Processing (NLP/NLU) via Wit.ai.

-Gathered over **190** unique users within the first week of launch.

I 2015 - 2016 I

### • HydraChew Entrepreneurial Project

-Acted as **Team Leader** in a group of young entrepreneurs, creating a product which encourages Canadians to spend more time outside.

-Amalgamated all aspects of the project into a **working prototype** and business.

-Developed the website, business plan, and promotional materials.

I 2016 I

### • Midnight Sun (Solar Racecar)

-The University of Waterloo's cruiser class solar racecar, set to compete in the World Solar Challenge in 2017.

-Designed and modeled the chassis and body, frame, and powertrain.