Sophie Berger

BSc in Computer Science and Masters of Management student at UBC
Android, iOS, Web and AR experience
Microsoft Imagine cup Regional Finalist, and Hackathon winner

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"Strength Insight Report" (from Gallup / CliftonStrengths): Achiever, Strategic, Learner, Futuristic, Focus

Skills

Proficient: Python, Java (6 yrs), Swift (3 yrs), Firebase, ARKit
Familiar: C, C++, Kotlin, JavaScript, React, Unity, Tensorflow, HTML, CSS

Experience

Undergraduate Researcher 03/ 2020 – 08/ 2020
USRA/SURE internship through UBC
- AR-based instructions for elderly users
- Supervised by Prof. Dongwook Yoon

Equity-owner of "Mindset" startup 10/ 2019 – Present
iOS Expert/equity-owner
- Front-end development on dementia screening iOS app using Swift
- Analyzed iOS UI/UX compatibility
- Wrote a tech-specification document for out-sourced development

Tailored Apps 05/ 2019 – 07/ 2019
iOS Software Developer Intern
- Implemented **Firebase** authentication/Cloud Functions
- Added **AR** and object recognition using **ARKit**
- Parsed Json from a database for in-app deep links
- Serialized data using the Codable protocol
- Localized using a Fastlane Google-Sheet plugin
- Helped CTO estimate the feasibility/pricing of a Machine Learning project

Competitions

Microsoft Imagine Cup Regional Finalist 05/ 2019
Americas regional final
(bit.ly/imaginenekotap)
- In top 12 teams out 30,000+ participants in the Americas
- Presented at the Microsoft Build conference
- Same as "nekoTap" project below

1st place at nwHacks with "nekoTap" 01/ 2019
Western Canada's largest Hackathon (1000+ participants)
(devpost.com/software/nekotap)
- Android app for improved drug adherence using NFC technology to receive tailored drug information

- Designed animations using Lottie library and implemented Android front-end using **Java** to increase usability/accessibility within the app

Education

BSc in Computer Science	09/ 2018 – 12/ 2022
+ Master of Management:	09/ 2018 – 12/ 2023

- Average = 83.9%, Dean's honor list
- Relevant courses: Models of computation, Software construction, Introduction to Computer Systems, Basic Algorithms and Data Structures

"Java Foundations Certified Junior Associate" - *Awarded by Oracle University* 03/ 2017

Selected projects

Soil TopARgraphy 10/ 2018 – 09/2019
Android & Unity Developer for UBC Launchpad
(eml.ubc.ca/projects/soil-topargraphy/)
- Created an **AR** app for Dr. Maja Krzic's soil science class at UBC
- Created Android front-end using **Kotlin** and **Java**
- Added UI features to custom **AR** map in **Unity**
- Offers more engaging education to 250+ students
- Utilized Google Maps Android SDK for location
- Presented at UBC "Multidisciplinary Undergraduate Research Conference"

Google NIMA in TensorFlow Lite 07/ 2019
Proof of concept for TailoredApps
(bit.ly/TFLiteGoogleNIMA)
- Converted existing "Neural Image Assessment" models to **TensorFlow Lite** models using **Python**
- Developed an iOS project to rank images and determine the "best" overall image using **Swift**

Community Involvement

Microsoft Student Partner (MSP) 09/2019 - Present
Microsoft
- Represented Microsoft and educated about technology on social media/my university campus

nwPlus Engagement Coordinator 04/ 2020- Present
UBC nwPlus
- Organizing multiple hackathons, including Western Canada's largest hackathon (nwHacks)
- Collaborating with universities, industries and hackathon attendees