

Mooyeon Seo

github.com/mooyeon-seo

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EXPERIENCE

Raspberry Sherbet, North York, ON, Canada — *Founder* raspberryshebet.ca

AUGUST 2023 - PRESENT

Developed a **contaSingle-Page Application** with a user-friendly UI

Set up secure and lightning-fast payment methods using **Stripe**

Wrote **30+ Automated Tests** for each feature to ensure high-quality

Softmoc, North York, ON, Canada — *Key Holder* github.com/mooyeon-seo/RetagEm

APRIL 2023 - PRESENT

Became a **top-selling salesman** out of 20+ employees at the branch within the first two months

Built a mobile application, from scratch, that optimizes the retagging process of the shoes in response to frequent store promotions

Safe Surfer, Tauranga, GIS, New Zealand — *iOS Developer*

MARCH 2023

Developed an iOS application by leveraging the Screen Time API, providing regular progress updates to the CEO

Inspired Premium Feature of [Somnapp](#)

Republic of Korea Army, Paju, The Korean DMZ — *Sergeant*

JULY 2017 - APRIL 2019

Gathered military intelligence from North Korean facilities within the DMZ and promptly delivered comprehensive reports to nearby division headquarters

EDUCATION

University of Waterloo, Waterloo, ON, Canada — *Computer Science (BSc)*

SEPTEMBER 2016 - AUGUST 2022

Graduated with Distinction on Dean's Honors List

Received University of Waterloo President's Scholarship

SKILLS

Git

Docker

CI/CD

FRAMEWORKS

React.js

Express.js

Redux.js

Jest.js

Node.js

PostgreSQL

LANGUAGES

Javascript

HTML/CSS

Python

C/C++

Swift

Bash

MIPS

Kotlin

UNDERGRADUATE PROJECT (University Of Waterloo)

Source Code Available Upon Request Due To Academic Integrity

* Non-trivial C, C++ Projects in Operating System and Compiler *

OS/161, in C

received 99 out of 100 in CS350: Operating Systems

- Implemented **virtual memory** and **linux system calls** such as fork, waitpid and more
- Wrote **custom scripts** in **Bash** to streamline executing a **chain of complex build commands**
- Utilized **GNU Debugger** extensively to trace and **fix numerous bugs** efficiently

WLP4 Compiler, in C++ and MIPS

received 94 out of 100 in CS241: Foundations of Sequential Programs

- Built a **WLP4 (strict subset of C++) compiler** that outputs an executable MIPS file
- Supports cool features like **linking other files**, **function arguments** and **while loop**

* Android Development *

Battleship, in Kotlin

received 87 out of 100 in CS349: User Interfaces

- Developed an interactive player vs. computer battleship game in Kotlin with **complex game logic and animations** integrating **Object-oriented programming principles**

Note Taking App in Kotlin

received 87 out of 100 in CS349: User Interfaces

- Developed an Android application that **supports CRUD operations**, with a **user-friendly interface** to enhance user experience

PRIVATE PROJECT

Sentimental Mirror (February 2023)

NaturalLanguageProcessing, Vapor, CommonCrypto, TwitterAPI, XCTest

<https://github.com/RedDevil2002/SentimentalMirror/>

- Built a Twitter Bot server that acts as an intermediary to pass along **users' posts with sentiment analysis**.
- Implemented manual calculation of a cryptographic signature for each request using the **HMAC-SHA1** hashing algorithm and **base64 encoding** to send requests to TwitterAPI.

Will It Rain? (October 2022 ~ January 2023)

FirebaseAuth, MapKit, Lottie, Core Location, Combine, UIKit, SwiftUI, Core Data

<https://apps.apple.com/ca/app/will-it-rain/id6443710105>

- Developed an iOS weather app, gaining experience in working with **RESTful APIs**, understanding **JSON** data structures, and effectively managing asynchronous operations.
- Published the app on the App Store, providing an opportunity to familiarize myself with the **Human Interface Guidelines**.