

JIN SUNWOO

16 months of Co-op Experience · Full Stack Software Engineer · Bachelor of Computer Science

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TECHNICAL SKILLS

Skills: Python, C, Java, JavaScript, HTML/CSS, Swift, Objective-C, Unix/Linux

Test: JUnit, pytest, XCUITest

Tools/Frameworks: FastAPI, Flask, Spring, React, MySQL, MongoDB, Git

CI/CD : Jenkins, AWS

WORK EXPERIENCE

Software Engineer Intern, Intuit

Sep – Dec 2022

- Enhanced the accuracy and representation of web tax files in the web-based tax software “TurboTax”, which serves over **40M** taxpayers annually, by resolving image extraction issues using **Java** and Spring.
- Advanced the tax form mapping system by integrating a new mapping for the “1099-K tax form” with **Spring**, facilitating file uploads and image capture functionalities while ensuring seamless updates across repositories.
- Coordinated with global teams of software engineers, QA engineers, and architects to resolve cross-team challenges, focusing on how data is shared and processed between teams to effectively address intersecting issues.

Software Engineer Intern, BlackBerry

May – Aug 2022

- Improved the usability and reliability of the **iOS** app “BlackBerry UEM” by engineering solutions to app activation issues and developing end-to-end automation with **XCUITest** to identify and address functional bugs.
- Contributed to the **CI/CD** process utilizing **Jenkins**, enabling the successful scheduling and monitoring of automated tests to ensure error-free code updates prior to production deployment.

Software Engineer Intern, Sonova

Jan – Apr 2022

- Built an iOS app leveraging **Swift** and **Xcode** to empower Sonova hearing aid users with health insights, advanced device tracking for usage monitoring, and facilitated data sharing with caretakers for improved support.
- Developed a **RESTful API** with **Python** and **FastAPI** to integrate user profile, daily health data, and device usage with **MongoDB**, ensuring efficient storage and retrieval of data to enhance the app’s functionalities.

Software QA Analyst Intern, Sonova

Sep – Dec 2021

- Analyzed and tested **1000+** possible user behavior scenarios to assure the quality of **100+** hearing aid devices.

PROJECTS

Coop Application Management Web App, My Mad Coop Diary

Apr – May 2021

- Engineered a web app designed for efficient retrieval of job listings from Indeed and Stack Overflow, simplifying job search processes while enabling users to track and categorize applications based on status.
- Coded a web crawling algorithm with **Python** and **Flask**, using Beautiful Soup for **HTML** parsing and integrating MongoDB for storing users’ application data, then deployed the solution on **AWS**.
- Accelerated data scraping speed by **9.6 times** using multi-threading to extract job listings from career websites.

Sign Language Translate Web App, Hospitalk

Feb – Mar 2021

- Programmed a web app that translates sign language into voice, fostering communication between hearing-impaired patients and healthcare providers, in collaboration with a team of four during a hackathon.
- Optimized the sign language gesture recognition by applying Google’s ML tool, Teachable Machine API.

EDUCATION

Bachelor of Applied Science with Honours Computer Science, McMaster University

2018 – 2023

- Relevant courses: Databases, Operating Systems, Computer Networks and Security, Concurrent Systems, Software Testing, Human Computer Interfaces, Syntax-Based Tools and Compilers, Algorithms and Complexity
- Volunteered as an ambassador and mentor for McMaster Engineering Society, offering guidance and support to high school and first-year university students.