

SOPHIA KIM

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PROFILE

- Self-sufficient with an analytical mindset, a drive to learn, and curious attitude towards problem solving
- Reliable team player and effective communicator across multidisciplinary teams and stakeholders
- Experience with collaboration tools such as Git and JIRA, and familiarity with Kanban and scrum processes
- Knowledge and experience applying design principles in software development in past and recent projects

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, Kotlin, XML, HTML/CSS, Bash, SQL

Developer Tools / Frameworks: Ansible, Git, Jenkins, SVN, Firebase, JUnit, Mocha, Chai, Mockito

Libraries / Environments: Unix, React, Node.js, Springboot, Maven

PROFESSIONAL EXPERIENCE

Full Stack Developer Co-op

Sept 2022 – May 2023

CGI

Burnaby, BC

- Improved maintenance of tech infrastructures and operational processes by writing Ansible playbooks, executing tasks as a privileged user, cleaning up files, updating version control folders, and deploying scripts on Unix
- Analyzed code base of a web application to investigate the user cache invoke process from the user interface to the database, leveraging SQL, and creating documentations and diagrams to understand its interaction with CronJob
- Reviewed and refactored code in Java, and wrote unit tests using JUnit and Mockito, which improved the quality of the user cache data

Research and Health Coordinator

Nov 2018 – July 2021

Canada's National Ballet School

Toronto, ON

- Conducted a study for a digital arts-based health program across Ontario, finishing the pilot with a 79% retention rate, exceeding target research participants by 172%, and contributing to the manuscript for 2 publications

PROJECTS

Music Sheet Domain Specific Language (DSL)

Jan – Feb 2024

Course Project

Vancouver, BC

- Built a DSL for generating sheet music, featuring creation, mutation, and repetition of notes, chords, and sequences, and ultimately scored one of the top projects in the class
- Led the design of grammar rules by conducting user studies, iterating design of the language, implementing the feedback for each deliverable phase, and repeating this process to ensure an optimally intuitive language
- Leveraged ANTLR to implement grammar rules, JUnit for testing, and Java to convert tokens to AST objects

Speech-to-Text App for Communication Assistance (Hackathon Top 5 Finalist)

Feb 18 – 20 2022

StormHacks 2022

Vancouver, BC

- Awarded: Top 5 Finalist, Most Creative Use of Twilio
- Created Hearo, a speech-to-text app to assist communication for people with hearing challenges and act as a transcription tool for healthcare providers when communicating with patients
- Leveraged React and JavaScript to implement WebSocket API to feed client data input for the speech-to-text feature

EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Computer Science (BCS)

Sept 2021 – May 2024

Western University

London, ON

Master of Public Health (MPH)

Sept 2017 – Aug 2018

University of Toronto

Toronto, ON

Bachelor of Arts, Honours with Distinction – Health Studies Specialist, Sociology Major

Sept 2013 – May 2017