SOPHIA KIM

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TECHNICAL SKILLS

Languages: Java, Kotlin, Python, TypeScript, JavaScript, Bash, SQL
Developer Tools / Frameworks: Ansible, Git, 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 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 developed test cases using JUnit and Mockito, improving 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 2 publications

PROJECTS

Receipt Reader Android Mobile App   May 2024 – Present
Personal Project   *Vancouver, BC*
- Building a mobile app that reads and compiles receipts to help users streamline reimbursement processes
- Leveraging Kotlin and XML to build and design the end-to-end workflow of the product, Google ML Kit Text Recognition API to parse and store the data from the receipt, and JUnit and Mockito to test the features
- Implementing features to take a picture, store, review information, and email receipts
- Developing the product from the ground-up, starting with a real user problem, addressing each use case, and developing and testing the features

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
- Leveraged ANTLR to implement grammar rules, JUnit for testing, and Java to convert tokens to AST objects
- 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

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*