

WILLIAM LIU

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EDUCATION

UNIVERSITY OF ALBERTA

BSc. Computing Science Specialization

Jason Lang Scholarship 2020

Expected: Dec 2023
GPA: 3.3/4.0 | MAJOR: 3.9/4.0

EXPERIENCE

J.R. Paine & Associates Ltd.,

Underground and Materials QC Technician

Aug 2020 – Nov 2020

Edmonton, AB

- Performed underground backfill quality control according to city specifications and standards on 4 residential subdivision development sites.
- Worked alongside geotechnical engineers to perform geotechnical core drilling and analysis for future road development.
- Tested soils, concrete, aggregates, and asphalt for development sites in the lab.

Worley Cord

Civil Construction Labourer

May 2019 – Aug 2019

Suncor Firebag OilSands, AB

- Performed carpentry and labour related tasks and ensured all areas on the job site were safe and tidy.
- Worked over 10 hours each day on a 14/7 rotation shift with a crew of over 20 people per shift.
- Participated in daily safety toolbox talks, wrote daily hazard assessment cards and weekly safety meetings, and adhered to the site-specific and OSHA safety regulations.

PROJECTS

QR Score | Java, Android Studio, Firestore, Git

<https://github.com/CMPUT301W22T20/QR-Score>

- Developed an Android app using Java, Firebase Firestore, and Android Studio that allows users to scan QR codes for points and compete with other users.
- Implemented a seamless usernameless and passwordless login experience using Firebase Authentication so that users don't have to log in.
- Utilized OpenStreetMaps API to display QR Codes at different geo-locations.
- Implemented unit and intent tests using JUnit and Robotium to ensure problems are detected immediately which decreases the time needed for team members to fix bugs/issues.
- Applied scrum practices with a team of 5 and used Git/Github to review and deploy code.

TopSongify | Python

<https://github.com/liu-william/TopSongify>

- A Spotify playlist generator based on the user's listening activity.
- Utilized Spotify's Web API and Python's Requests library to send HTTPS requests.
- Wrote a Python script to gather short, medium, and long-term Spotify user data to create and populate playlists for the respective time frames.

Personal Portfolio Website | HTML, CSS, JavaScript

<https://github.com/liu-william/williamliu.ca>

- Created a responsive personal portfolio website using HTML, CSS, and JavaScript.

SKILLS

Languages: Python, Java, C, JavaScript, HTML, CSS/SCSS, \LaTeX

Technologies: Git/Github, Android Studio, Firestore, Figma, XML, UML

RELEVANT COURSEWORK

- Software Engineering
- Data Structures
- Algorithms
- Computer Architecture
- Digital Logic Design
- Discrete Mathematics
- Games, Puzzles, Algorithms
- Linear Algebra I, II