PROJECTS

Logos
Java

Evaluate, store, retrieve, compare equivalence, and generate truth tables for logical statements. Hand coded lexer/parser for statement entry.

SpeechScript
Azure Compute, OpenAI Codex, React

Turn your voice directly into code in your web browser.

YogaVision
First Place, BCS Hackathon
Mediapipe Pose, React

A machine-learning pose recognition app with a custom pose matching algorithm to up your yoga game.

EY UniVRsity
First Place, ProduHacks L&D Stream
Decentraland, NFTs, Figma prototype

Learn, gain badges, engage, and be immersed in a Metaverse based experience.

weike.ca
Figma prototype, React, Firebase

Work in progress personal website to give an overview of my skills, experience, and who I am.
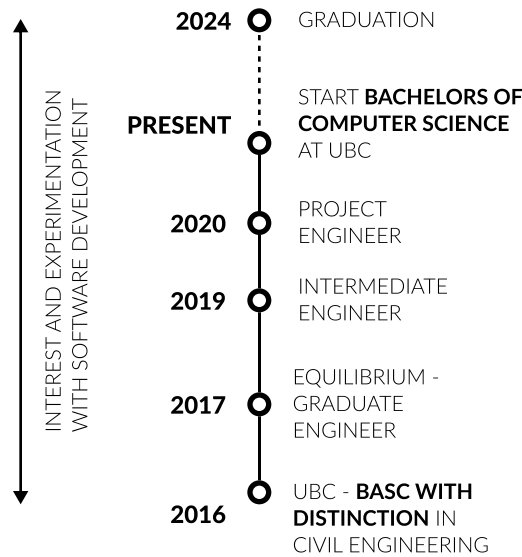
Skilltree
Phase - Customer Discovery

Learn anything with community generated, progression-based breakdown of skills.

Bespoke structural analysis programs
VBA, C#, Python

Software solutions to analyze structural design model data using APIs. Had both unidirection and bidirection connections between structural analysis software and Excel/Revit.

Timeline

Year	Event
2024	GRADUATION
PRESENT	START **BACHELORS OF COMPUTER SCIENCE** AT UBC
2020	PROJECT ENGINEER
2019	INTERMEDIATE ENGINEER
2017	EQUILIBRIUM - GRADUATE ENGINEER
2016	UBC - **BASC WITH DISTINCTION** IN CIVIL ENGINEERING

INTERTATION AND EXPERIMENTATION WITH SOFTWARE DEVELOPMENT

WEIKE QU

W

A passionately curious professional engineer with a background in the field of structural engineering and building design. Weike is driven by a desire to leverage his past technical and leadership skills to continue to build amazing things now in a virtual space.

COURSEWORK

Computation, Programs, and Programming
DrRacket, functional programming

Models of Computation
Logical statements, predicates, circuits

Software Construction
Java, software projects, software design methods

Introduction to Computer Systems
Software architecture, hardware, performance

Basic Algorithms and Data Structures
Algorithm analysis, search/sort, basic data structures

SKILLS

Technical Research	Git
Technical Analysis	Java
Eager Learner	C/C++
Communication	JS
Leadership	React
Creative Design	Python

WORK & VOLUNTEERING

Amazon - AWS
Incoming SDE Intern in May 2022

Equilibrium Consulting
Project Engineer

Designed and analyzed structural performance of state of the art seismic isolation systems, successfully leading teams on $20M+ projects. Led the internal processes committee to critically evaluate and improve the systems and processes that structural engineers depend on. Developed custom solutions through software APIs and programming to speed up design and analysis workflow.

2017 - 2021

Cmolik Alumni Committee
Committee Chair

The Cmolik Foundation is an organization dedicated to helping students across BC access opportunities in higher education. I volunteer as one of the founding members on the alumni committee of the foundation where my role is to coordinate socials, outings, workshops, and other events to further alumni connection and to provide networking opportunities.

2017 - present

Structural Engineers Association
Finance & Registration Coordinator

Co-created and led an initiative to bring young structural engineers together in a collaborative environment to learn and participate in an open dialogue between peers. Personally moderated many of the discussions. Planned and run successful seminars/events to educate SEABC members on registration-related topics and manage the finances of the group.

2018 - present