

# Connor Young

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## EDUCATION

**University of British Columbia**

*Bachelor of Arts – Major in Computer Science – Cumulative GPA: 3.9*

Expected Graduation Apr 2026

*Vancouver, BC*

## EXPERIENCE

### Software Engineer

Sept 2024 – Present

*UBC Learning Centre – Contract Part-time*

*Vancouver, BC*

- Developed educational applications for 3500+ students and 20+ professors focusing on creating software that non-technical professors can access and implement easily into their courses
- Built interactive learning tools using **JavaScript** and SCORM API, including a quiz-integrated crossword puzzle focused on detailed feedback and an intuitive interface
- Authored a handbook for the entire UBC Learning Centre to guide software engineers on SCORM best practices and implementation into Canvas LMS
- Collaborated with professors to develop custom quiz software, organize course data, and digitize paper quizzes to enhance educational support

### AP Computer Science Tutor

Apr 2024 – Present

*BeWise Education – Part-time*

*Remote*

- Tutored advanced placement (AP) students in object-oriented programming (OOP) and **Java**
- Monitored student progress, offering regular feedback and adjusting tutoring methods to meet learning needs
- Created lessons for students, achieving a 20% overall grade increase
- Guided students in mastering data structures and algorithms with clear, simplified explanations

## TECHNICAL PROJECTS

### AI Academic Advisor | *React, Python, flask, cohere API*

Sept 2024

- Created an AI academic advisor using **React** to assist students in the course selection process for 200+ universities
- Developed a deterministic large language model (LLM) using Retrieval-Augmented Generation (RAG) with the Cohere API, **Python**, and **flask**, integrating multiple university course APIs for accurate course information
- Reduced the AI response time by 530% using cohere APIs re-rank function achieving a 1.5s response
- Collaborated with three teammates to develop ideas, bug fix, and learn new frameworks in **Hack the North 2024**

### Stock Analyzer | *Python, pandas, PyTest, PySimpleGui, matplotlib*

Jul 2024

- Designed an object-oriented **Python** app to monitor stock market data and improve investment decisions
- Analyzed 700+ stocks using **pandas**, Yahoo Finance API, and matplotlib for real-time price visualization
- Implemented CI/CD pipelines with GitHub Actions, following an agile software development life cycle
- Utilized **PyTest** to create unit tests, achieving 98% code coverage, and ensuring robust and coherent code

### AI Itinerary Planner | *React, Django, OpenAI API*

May 2024

- Developed an itinerary planning **React** web app utilizing OpenAI API generating travel plans for 4000+ cities
- Engineered a SQLite database with a RESTful API using **Django** for data storage and CRUD functionality
- Streamlined an algorithm sorting AI-generated output into JSON for 90% faster parsing, storage, and retrieval

### Workout Progress Tracker | *Java, JUnit, Java Swing*

Jan 2024

- Programmed a workout records tracker in **Java**, promoting user convenience, organization, and improvement
- Created an algorithm to filter workout data based on user input, providing insight for specific workout categories
- Implemented unit testing with **JUnit** for 100% code coverage, promoting robust code and reliable data storage

## SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, HTML, CSS, C, Assembly, Racket

**Frameworks/Libraries:** React, Django, pandas, PyTest, JUnit, Firebase, flask, SQLite, Node.js, MongoDB, Express, Docker

**Developer Tools:** Git, Figma, Visual Studio IDE, GitHub Actions, Wordpress, Version Control