

# Sean Woo

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## EDUCATION

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### The University of British Columbia

Bachelor of Science in Computer Science and Mathematics

Expected Graduation: May 2026

GPA: 3.7/4.0

## EXPERIENCE

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### Amazon

Software Development Engineer Intern

May 2025 - August 2025

Vancouver, BC

- Incoming software development engineer intern at Amazon for Summer 2025

### Klue

Software Engineering Co-op

January 2025 - May 2025

Vancouver, BC

- Incoming software engineering co-op at Klue for Winter 2025 on the Gen AI team

### UBC Cloud Innovation Centre

Software Developer Co-op

May 2024 - December 2024

Vancouver, BC

- Designed and implemented an AI Learning Assistant using AWS CDK in TypeScript for infrastructure as code, to support students with course-related inquiries and quizzes
- Enabled multi-tenant Retrieval-Augmented Generation by utilizing PGVector for efficient storage and querying of embedding vectors, achieving 25% faster LLM response times using LangChain
- Developed a RESTful API for course management with AWS API Gateway, Lambda functions, and secure authentication via AWS Cognito, facilitating efficient material uploads to RAG pipelines
- Built a responsive frontend with React, Shaden UI, and Material UI, enhancing user interaction with the AI Learning Assistant

### The University of British Columbia

Undergraduate Teaching Assistant

September 2022 - December 2023

Vancouver, BC

- Supervised labs for over 250 undergraduate students, offering guidance during labs and feedback on problem sets

## PROJECTS

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### BThere (nwHacks 2024 Runner-Up) | React, Next.js, Python, Flask, WebRTC, Socket.io, Tailwind CSS

- Placed 2nd out of 700+ hackers by developing a conversational assistance web app that allows users to upload or record live conversations to identify individuals, detect their emotions, and provide personalized suggestions using references from previous conversations
- Leveraged AWS Facial Rekognition, Google Cloud Vision, and OpenAI API for facial recognition, emotion detection, and contextually relevant conversation suggestions
- Integrated live video streaming using WebRTC and sockets, enabling facial recognition for efficient user matching to backend profiles in Firebase and conversation suggestions in real-time
- Accelerated delivery of conversation suggestions through the implementation of live video chunk handling using Flask-SocketIO

### SleepCode | React, TypeScript, Tailwind CSS, Firebase

- Created a coding challenge platform with an executable coding environment, integrated timer, and embedded youtube solutions
- Created a responsive and customizable frontend for the coding platform, featuring a like/dislike system that personalizes content and improves user engagement
- Leveraged Firebase for data storage, and utilized Firebase React Hooks for both efficient data management and secure user authentication

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, TypeScript, C++, Java, SQL, Postgres, HTML, CSS

**Frameworks:** React, Express, Chai, Mocha.js, JUnit, Scikit-learn, TensorFlow

**Tools/Platforms:** Node.js, Git, AWS, Docker, Firebase, MongoDB, Linux