Aayush Behl

Computer Engineering student
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Education

University of British Columbia **Sept. 2019 – Apr. 2023**

Bachelor of Applied Science - Computer Engineering, GPA: 85%
Relevant Coursework: Software Construction I, Software Construction II*, Basic Algorithms and Data Structures, Intermediate Algorithm Design and Analysis*, Computer Communications*
**Currently enrolled*

Technical Skills

- **Languages/Technology:** Java, C++, C, Python, JavaScript/HTML/CSS, Node.js*
- **Tools/OS:** Git, Android Studio, ROS*, Linux*
- **Concepts:** OOP, Data Structures and Algorithms, Web Development, Machine Learning

**Currently Learning*

Work Experience

Teaching Assistant **Sept. 2021 – Present**

University of British Columbia, Dept. of Computer Science
APSC 160: Introduction to Computation in Engineering Design

Projects

ML Game Recommender, University of British Columbia **Mar. 2021 – Apr. 2021**

Technology: Python, Node.js, Kotlin

- Led a team of four students in making an Android application that takes game cover art images as input, recognizes them as one of 350 PS4 games, and recommends similar games the user might enjoy
- Successfully trained the image recognition system using a combination of YOLO object detection and Google's Mobilenet model using only one image per class (before augmentation)
- Set up a Node.js backend that receives game images, processes them using the Game Recognition and the Recommender ML models and responds with recommendations as JSON
- Earned an A+ in both the project as well as the entire course

AVL Tree Simulator, Personal Project **Aug. 2021**

Technology: JavaScript, HTML, CSS

- Developed a web application simulator that demonstrates how the data structure AVL Binary Tree looks after inserting/deleting nodes
- Successfully implemented the functionality of an AVL tree using JavaScript (without pointers) instead of C++ (with pointers)
- Used HTML's canvas to display the tree structure on the browser

DigiDiary Web App, Personal Project **Jun. 2020 – Jul. 2020**

Technology: JavaScript, HTML, CSS

- Developed a front-end web application which not only allows users to make diary entries for each day, but also to make a to-do list and an events list which notifies users of any upcoming deadlines/events
- Utilized a client-side storage database called IndexedDB to store all user data in JSON format, which automatically loads each time the user starts the application