Sayuj Sethi

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TECHNICAL SKILLS

Languages: Dr. Racket (Lisp), Java, Python, C/C++, MySQL, HTML/CSS, R
Frameworks: Django, JUnit, Swing
Libraries: pandas, tidyverse, media-pipe, OpenCV, discord.py

PROJECTS

BudgetBuddy | *Java, JUnit, Swing, JSON*   Jan 2023 - Apr 2023
- Developed a comprehensive budget tracking app using **Java** with robust functionality to input, store, and present financial data.
- Devised algorithms to implement spending limits and overspending notifications.
- Implemented robust testing of model using **JUnit** with 100% code coverage and **JSON**-based lightweight data persistence of user data
- Designed and implemented a visually appealing and user-friendly graphical user interface using **Java Swing**.

k-NN Wine Quality Prediction | *R, tidyverse, git*   Sept 2022 - Dec 2022
- Engineered a k-NN classification model to predict the absolute quality of wine given physical and chemical parameters.
- Cleaned, filtered and split the raw data. Cross validated training data over 10 folds. Tested and optimized for best k-value and created the model
- Operated in a team of 4 members, with strategic collaboration on git and finally presented a comprehensive report of findings.

AI Gesture Dino-game | *Python, OpenCV, media-pipe, pyautogui*   Jan 2021
- Engineered an interesting, novel way to play the Google Chrome Dino Game only using hand gestures
- Parsed and presented real-time video from device webcam using **OpenCV** achieving up to 30FPS.
- Implemented **media-pipe's** pre-trained AI model for hand detection, wrote a custom function to detect a pinch gesture using hand-landmark coordinates.
- Automated the entire gameplay through gestures with **pyautogui**

LEADERSHIP EXPERIENCE

Technical Lead   Oct 2023
First Byte Case Competition   *Vancouver, BC*
- Conducted comprehensive statistical analysis and modeling of "client" data to identify trends, patterns, and outliers within datasets.
- Collaborated closely with non-technical team members to generate creative ideas and present a case strategy for the "client".
- Won second runners up from a pool of 50+ teams after 2 rounds of "shareholder" presentations.

Student Representative   Sept 2022 - Apr 2023
Totem Park Residence   *Vancouver, BC*
- Represented 20-person floor of first-year residence at UBC, ensuring student needs were met and fostering unity among residents
- Effectively managed a $2000 annual budget, organizing and executing 8 events for 200+ first-year students.
- Demonstrated adept teamwork and organization skills, resulting in successful event coordination and resident satisfaction

Head of Student Council   Sept 2021 - May 2022
Delhi Public School   *Noida, UP*
- Led and represented a 4000+ student body, effectively bridging communication between students, teachers, and administration.
- Managed conflicts, promoted inter-club communication and fostered school spirit.
- Developed a strong foundation of communication, leadership, and time management skills.

EDUCATION

University of British Columbia, Vancouver   *Intended May 2026*
Bachelor of Science in Computer Science (Dean's Honour List)