# **AKSHAT KALRA**

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#### **TECHNICAL SKILLS**

Programming Languages: Java, C++, JavaScript, Python, HTML, CSS, R, Racket(Dialect of Lisp)

Frontend: Vanilla Javascript, HTML, CSS, ReactJS

Backend: Node.js, Express.js, MongoDB

Statistical Data Analysis: R (Programming Language), Python, Asymptotic Tests, Hypotheses Testing & Bootstrap-

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Additional Skills: Git, GitHub, LaTeX

### **EXPERIENCE**

# **UBC**, Department of Philosophy: Undergraduate Teaching Assistant

Sep 2023 - Dec 2023

- Undergradute Teaching Assitant (UTA)for PHIL 220 (Symbolic Logic), a **second year philosophy course** that introduces **sentential logic** and **predicate logic**.
- Translation from natural language; truth tables and interpretations; **systems of natural deduction** up to **relational predicate logic** with identity; alternative proof methods.

## **ACADEMIC PROJECTS**

Portfolio Website Jul 2024 - Present

Designed and developed a dynamic, single-page personal portfolio website using **ReactJS** to showcase my skills and projects. The site features a modern, minimalist and responsive design with smooth navigation and interactive elements. **Tech stack**: **ReactJS**, **CSS3**, **Javascript ES6+**, **JSX** (**Javascript XML**).

- React-based architecture for efficient rendering and state management. Dynamic theming with dark/light mode toggle using Context API
- Extensive use of React Hooks for functional component-based architecture

# FitTrackr: A Comprehensive Health and Fitness Companion

Jan 2024 - Apr 2024

Developed a Java-based application that allows fitness enthusiasts to scientifically optimize their workouts and track progress. Used **Java Swing** for GUI and **JUnit5** for unit testing the application. Key features include:

- · Logging workouts with exercises, sets, reps, and weights
- · Calculating and tracking total workout volume
- Visualizing progress in specific exercises over time
- Displaying overall workout volume and progress since day one
- Saving and loading workout data for long-term tracking

# Statistical Inference on Whether Ticket Classes affect Survival on the RMS Titanic

Jan 2023 - Apr 2023

Current GPA: 4.30/4.33

Collaborated in a team of four to conduct a statistical inferential analysis as a part of the final project for our STAT 201 class. Utilized the "Titanic - Machine Learning from Disaster" data set from Kaggle.

- The inferential question targeted was "Does the ticket class on the RMS Titanic determine whether they survived or not?".
- Utilized Hypothesis testing, Bootstrap Methods, Standard Error Method and Two-Sample Z-Test to arrive at an interesting conclusion.
- Received a perfect score of 100/100 for the final project.

#### **EDUCATION**

Bachelor of Science, Statistics with Thematic Concentration in Computer Science | Dean's Honour List | OIS Scholar Graduating May 2027

University of British Columbia, Vancouver, BC

Faculty of Science

Relevant coursework: CPSC 210 (Software Construction) [91%], CPSC 121 (Discrete Mathematics) [93%], CPSC 221 (Data Structures and Algorithms), DSCI 100 & STAT 201 (Data Science & Statistical Inference with Data Science) [88%], STAT 302 (Introduction to Probability) [91%].