

Shehraj Singh

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WORK EXPERIENCE

Summer Research intern - University of Alberta

June 2022 – August 2022

- Improved SQLite database schema to optimize search results.
- Implemented multi-threaded algorithms to achieve better performance with high-precision floating point libraries such as mpfi, gmp.
- Languages used: C++, Java, SQL

Undergraduate Researcher - University of Alberta

May 2021 – September 2021

- Front end developer in “The Great Periodic Path Hunt” program. Modified UI components to improve productivity of users. The purpose of the program is to study periodic orbits in finite obtuse triangles.
- Developed [website](#) for displaying and releasing the software.
- Technology used: Java, JavaFX, HTML/CSS

EDUCATION & AWARDS

University of Alberta

2020 - 2024

BSc. Specialization in Computing Science

Coursework: Intro to Software Engineering, Practical Programming Methodology, Database management, Computer Architecture, Operating Systems, Intermediate Machine Learning.

Awards: Deans Honor Roll 2022 (4.0/4.0 GPA)
Deans Honor Roll 2021 (3.9/4.0 GPA)
University of Alberta International Country Scholarship
University of Alberta Academic Scholarship 2020, 2021

SKILLS

Languages: Python, C, C++, Java, Javascript, RISC-V Assembly

Frameworks: Django, ReactJS, Android SDK, SQL, MongoDB, Bootstrap, Tailwind, Git, Scikit-Learn

EXTRA-CURRICULARS

HappyMeals

Present

Developing a meal planner android application using Android SDK and Firebase in a team of six, following scrum practices. The App assists users to plan their inventories and shopping list according to their meal plans.

Machine Learning Certificate

Aug - 2021

Achieved certification for basics of machine learning. Used techniques such as Bagging/Boosting, Classification, Clustering, etc. Built various machine learning models using Scikit-Learn & Pandas.

Streaming Data Manager

Jan - 2022

A mini backend data manager for streaming services to keep track of users and their activities.

Recommendr

Jan - 2021

Built a song ‘Recommendr’ using HTML, Tailwind, Django. The algorithm recommends songs based on images clicked by users in real-time, calculates image properties such as luminosity and saturation to determine the image mood