# Manan Jain

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## Technical Skills

**Programming Languages, DBMS, other tools:**

- Proficient: C/C++, Python, RISC-V Assembly, Android Studio, Java, Git, GitHub, WSL
- Intermediate: Arduino, MySQL, JavaScript, HTML/CSS, Kotlin
- Familiar: xml, React, Express

**Languages**: Hindi (native), English (fluent), French (Beginner)

## Education

**University of Alberta** Sept. 2021 – Present
*BSc Honors in Computer Science* *Edmonton, AB*

*Relevant Coursework:*

- Introduction to Software Engineering (Unified Modeling Language, Software architecture, frameworks etc.)
- Introduction to File and Database Management (Entity-relation model, storage architecture etc.)
- Basics of Machine Learning
- Algorithms 1 (Sorting Algorithms, Graph Algorithms, Dynamic Programming etc)
- Computer Organization and Architecture 1 (Assembly Level programming, Instruction Set Architecture, pipelining, virtual memory etc.)
- Tangible Computing 1 and 2 (major focus on object oriented programming and complex algorithms that include graphing, caching, memoization)

## Projects

**</> Vote-Based Chatbox (JavaScript, MongoDB)**

- built a software with code-based chatrooms where messages are sent and then upvoted or downvoted, with the highest-rated message appearing at the top.
- uses the JavaScript React framework for the front end and the JavaScript Express framework and MongoDB for the back end.
- can be used by instructors teaching online classes to give priority to responding to the most frequently asked questions.

**</> Arduino Radar (Java, C++)**

- built a device that measures the separation between an object and itself
- uses an arduino UNO chip, breadboard, servo motor and an HC-05 ultrasonic sensor
- provides a visual of the location of the object with respect to itself

**</> Snake-Game (RISC-V assembly)**

- built a snake game with 3 different difficulty levels
- uses RISC-V assembly language and user and timer interrupts.
- for a better understanding of interrupts and exception handlers