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"The more we value things outside our control, the less control we have."

## Summary.

Motivated software engineering student with a strong foundation in C++, HTML, CSS, JavaScript, JAVA, and Python. Proficient in developing websites and Software solutions from scratch. Passionate about learning and applying new technologies. Seeking Industry Work to further hone my skills and leverage my software solutions to address real-world challenges.

# Relevent Experience \_\_\_\_\_

**Freelance Work** Melbourne

PRIVATE Jun. 2023 - current

- · Handling clients, manage expectations, setting reliable milestones and communicate regularly.
- Building simple user-friendly HTML and C++ websites
- Implementation of JavaScript to further enhance functionality and code readability

## Minecraft MazeMaster: Immersive Maze Generation and Solving

Melbourne

PROJECT Oct. 2023 - Nov. 2023

- · Led a collaborative project focused on immersive maze generation and solving within the Minecraft gaming environment using the high-level Spigot API and C++.
- · Coordinated group efforts by setting up and managing regular team meetings, ensuring effective communication, and keeping the project on
- · Planned the project's course of action, including the integration of recursive maze generation and right-hand follower maze-solving methods.
- Designed and implemented a modular and extensible structure for random maze generation and solving, allowing for the addition of various algorithms in the future.
- Managed resource allocation and cleanup for maze objects within the Minecraft world after and during program use, ensuring a clean and predictable environment.
- Worked in **Ubuntu** and **VScode** to create a user-friendly console-based interface for user input.

## MovieInfoHub: Your Ultimate IMDb Companion

Melhourne

ONGOING PERSONAL PROJECT

Oct (20th) 2023 - Present

- · Leading a personal project aimed at developing a user-friendly and efficient website using web scraping(with Node.js, Playwright and other related dependencies and the TMDB API.
- Utilizing web scraping techniques to extract relevant data using consistent JS pathways.
- Designing and implementing a fast and responsive web interface that meets user expectations and demands.
- · Managing ongoing development and improvements for the project to enhance the website's performance and user satisfaction (currently running tests and further implementation to reach desired vision).

### Other

PERSONAL PROJECTS 2019 - 2023

- Coding Challenges: Solving coding challenges on platforms like LeetCode or HackerRank.
- Smaller web application that integrates with public APIs
- General Automation Scripts (repetitive tasks, file organization, data scraping, or report generation)
- Personal website (in the process of a redesign)
- simple 2d games/calculators

## Skills\_\_\_\_\_

**Back-end** Express, REST API

Node.is, Python, JAVA, OCaml, LaTeX **Programming** 

Languages Punjabi, English, Hindi

**Main Programming Languages** Java, C++, Python, Assembly Web Development/Front End HTML, CSS, JavaScript, React Database Management/HTTP client SQL, Thunder Client, Postman

> Tools Git, Visual Studio Code, Eclipse, Sublime Text

**Operating System** Windows, Linux

HARMANDEEP SINGH · RÉSUMÉ NOVEMBER 11, 2023



## Royal Melbourne Institute of Technology (RMIT - City Campus)

Melbourne

2023 - 2026

• Studying B.S. in Computer Science/Software Engineering (Second Year)

# **Extracurricular/Personal**

School House Captain 2021 - 2023

- Successfully led and coordinated school house activities, charities and festivals
- Resolving house-related issues using creativity and adapting to the needs of others, a vital skill for troubleshooting in software engineering.
- Managing my responsibilities as a house captain while keeping up with academics, a critical skill in meeting project deadlines in the software industry

## **Coding Challenges (e.g LeetCode Weekly Contest)**

Personal 2022 - current

- Participate regularly in preparation for a hackathon
- To Enhance my programming and problem-solving skills. I love to use creative thinking and the ability to break down complex problems into smaller, manageable parts
- Coding challenges provide a continuous source of new problems to solve and allow you to stay intellectually engaged.
- Gain a competitive edge over my peers and are very fun to do

#### **Piano**

Personal 2023 (march) - current

- · I have a strong commitment and love classical pieces (especially by Beethoven) like Für Elise and Piano Sonata No. 14
- Still working towards building strong fundamentals

## **Calisthenics**

Personal 2018 - current

- · An advocate for body-weight workout and the ability to build strength and flexibility for long-term health
- Favourite exercises include pull ups, push ups and handstands