

Dineth Katanwala

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EDUCATION

The University of Adelaide

July 2022 – July 2026 (Expected)

Bachelor of Computer science (Advanced), Major in Artificial Intelligence

Adelaide, Sa, Australia

- **GPA: 6.0/7.0**

PERSONAL PROJECTS

Sudoku2D | C++, CMake, Raylib

Dec 2024 – Feb 2025

- Developed a fully functional Sudoku game using C++, Raylib, and CMake to explore GUI development and learn a new graphics library.
- Implemented an interactive interface with features such as grid generation, user input validation, auto-solve, and real-time feedback.

Bank Management System | C++

Aug 2023 – Nov 2023

- Developed a Bank Management System using C++ to strengthen object-oriented programming (OOP) concepts.
- Implemented core banking functionalities, including withdrawal, deposit, transfer, account password management, and other essential operations.
- Designed a secure and efficient system using encapsulation, inheritance, and polymorphism. Additionally, leveraged C++ file handling to store and manage user information

Chess3D | C++, CMake, Blender, Raylib

Feb 2025 – Present

- The project focuses on implementing a fully interactive chessboard with accurate piece movement, validation of legal moves, and real-time game state updates.
- Utilises Raylib's rendering capabilities and blender to create a visually appealing and responsive user interface.
- Working on integrating advanced data structures to efficiently manage board states and game logic.

Personal Portfolio Website | HTML, CSS, Node.js

Feb 2025 – Present

- This project serves as an opportunity to learn and apply HTML and CSS while gaining hands on experience in web development.
- The website will feature a structured layout, interactive elements, and a responsive design to ensure accessibility across different devices.

COMMUNITY INVOLVEMENT

Ravi's Study Program

Dec 2024 – Feb 2025

- Enrolled in an intensive volunteer-led coding Boot Camp designed to prepare students for success in big tech interviews.
- The program emphasises a deep understanding of algorithms and data structures, including regular mock interviews, significant amount of LeetCode, Competitive programming sessions and collaboration within hard-working community of students and graduates committed to mutual growth and achievement.

CPC x RSP 2025 – Competitive Programming Competition

Feb 2025

- Participated in a competitive programming competition as part of a three-member team, solving algorithmic challenges under time constraints.
- Collaborated effectively to analyze problems, strategize solutions, and implement efficient algorithms, while fostering teamwork, time management, and critical thinking in a high-pressure environment

LANGUAGES & TECHNOLOGIES

Languages: C++, Python, HTML, CSS, MATLAB, C

Developer Tools: Github, Visual Studio Code, Linux, Arduino

Technologies: SFML, Raylib