Anhad Sachdeva

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EDUCATION

Bachelor of Mathematical and Computer Science

The University of Adelaide, Australia   *Feb 2023 – Nov 2025*

- Relevant Course Work – *Algorithm & Data Structure Analysis, Systems Programming, Algorithm & Data Structure Design, Object Oriented Programming, Multivariable Calculus, Algebra II, Maths 1A & 1B.*

PROJECTS

VisualAlgo: Interactive Algorithm and Data Structure Demonstrator| ***Python***   *Feb 2024 – Ongoing*

- Produced animations to help demonstrate the inner workings of data structures and algorithms through dynamic visualizations using Manim.
- Developed a user-friendly interface enabling seamless exploration of various algorithms and data structures.
- Uploaded visually engaging videos to YouTube in hopes to share knowledge and educate others.

WorkoutPro: Weightlifting Planner App for Web/IOS/Android| ***React Native***   *Jan 2024 – Feb 2024*

- Developed an intuitive fitness application showcasing exercises through animations, supplemented with detailed written instructions.
- Integrated React Native animations to illustrate proper exercise techniques, accompanied by recommended sets and reps for effective workouts.

Assisted with Data Annotation and Quality Assurance for Research Paper   *Aug 2023 – Jan 2024*

- Collaborated on the annotation of manga characters using the List Annotator (LISA) tool, ensuring accurate labelling.
- Available at The Manga Whisperer: Automatically Generating Transcriptions for Comics

Terminal Chess | ***C++***   *Apr 2023 – May 2023*

- Developed a console-based chess game allowing players to engage in matches with core mechanics such as promotion, stalemate, castling, and check/checkmate detection.
- Implemented algorithms for move validation, piece movement, and game state management, enhancing gameplay functionality and realism.

COMMUNITY INVOLVEMENT AND AWARDS

- Our Team placed 3rd out of 44 teams in the University Wide Programming Competition.
- Adelaide High School Senior School Subject Prize – Accounting – 2022, 2021
- Captain for the Adelaide High Volleyball Team – 2018, 2019
- Assisted in organising the arrangement for University Wide Programming Competition.
- Member of The University of Adelaide Computer Science and Competitive Programming Club.

TOOLS AND TECHONOLOGIES

Proficient: **C++/C**   Experience: **Python, JavaScript, HTML, CSS, React**