

EDUCATION

Pok Fu Lam, Hong Kong

The University of Hong Kong

September 2019 – May 2023

- Bachelor of Engineering in Computer Science - Full Scholarship for 4 Years - CGPA 3.84/4.30.
- Dean's Honours List for the academic year 2019-2020.

Cambridge Examinations

- Straight 9 A* in Cambridge O levels.
- Straight 4A* in Cambridge A levels (Math, Physics, Chemistry and Economics).

College Board

- A full score of 2400/2400 in SAT Subject Tests (Math level II, Physics and Chemistry)

PROJECTS

See more at AliMurtaza.dev

StudentBase.app

January 2020 - Present

- Added a feature to the GraphQL API to fetch all incorrect question attempts of users.
- Designed and developed a page to show the above data so the user can analyze their weaknesses (React, Typescript, GraphQL, Apollo Client).
- Revamped the main page containing all available papers to help users segregate attempted papers from the unattempted ones (React, Typescript, GraphQL, Apollo Client).
- Modified authorization rules to enable site admins to securely access past paper attempts of all users so that they can analyze user behaviour (GraphQL, Apollo Server).
- Wrote tests for authentication, authorization and output for the above using jest.

User Interactive Forum

- A full stack development project where users can interact with each other and find answers to their queries (React, Express js and MongoDB).
- Created registration and login pages in order to customize user experience and allow them to retrieve their stored data.
- Added several features such as routing, searching and filtering questions on the basis of their categories or by entering certain keywords and allowing users to delete their questions or answers.

Invincible AI Player

- Created a 3-Board Notakto Game (which is also known as an impartial variant of Tic Tac Toe) using python. Unlike Tic Tac Toe, there will always be a winner in this game.
- This also includes a designed Invincible AI Player which is almost impossible to beat.
- AI player quickly responds to every opponent move within the time frame of 0.02 seconds.

WORK EXPERIENCE

Foundation for Shared Impact

Feb 2021 - April 2021

- Automated the scraping of Annual Returns and Financial Statements of government recognized charitable organizations from the ICRIS website using Selenium.
- Used BS4 to scrape address, staff information, governance, and objectives of more than 500 Hong Kong based charities from the HKCSS website.

SKILLS AND TECHNOLOGIES

- **Core:** Typescript, JavaScript, Python, C, C++, Java, PHP, SQL
- **Web & Database:** React, GraphQL | MySQL, MongoDB

ADDITIONAL

- STA for the course ENG 1340 (C++, C and Linux).
- Won the Best Beginner Hack award at CuseHacks 2021.
- Initiative of cultural exchange through video interviews of international students at Chi Sun College.
- Formerly: School Head Boy, House Captain and Vice President English Society.