

ALSON LEE JIAN YANG

HP: +65 86864036 Email: alsonleej@u.nus.edu LinkedIn: linkedin.com/in/alsoneej
Github: <https://github.com/alsoneej> Website: alsonleej.github.io

EDUCATION

National University of Singapore (NUS)

Aug 2024 - Present

Bachelor of Computing in Computer Science (Honours)

- NUS Merit Scholar (Top <5.0%)
- Current GPA: 4.88 / 5.00 (First Class Honours)

Hwa Chong Institution (HCI)

Jan 2020 - Dec 2021

GCE 'A' Levels

- AAA/AAA in Physics, Chemistry, Mathematics, Economics, General Paper, Project Work
- Hwa Chong Diploma with Distinction
- MOE Edusave Scholarship for Independent Schools (ESIS) Scholar
- H3 Chemistry Merit

PROJECTS

Sudoku Solver - Game Web App, <https://sudokusolver-beryl.vercel.app/sudoku>

- Created a fully functional Sudoku game web app featuring an integrated backtracking engine to solve puzzles instantly
- Implemented backend game-solving system using Depth-First-Search algorithm to solve user-submitted Sudoku puzzles, including puzzles exceeding difficulty 11.0
- Frontend: HTML, CSS (with Bootstrap), Javascript. Backend: Python, Flask

Personal Portfolio Website, <https://alsoneej.github.io/>

- Created a personal home page to display achievements and full portfolio.
- Frontend: HTML, CSS (with Bootstrap), Javascript

EXPERIENCE

Open Source Contributor, Source Academy, Singapore

Jan 2025 - Present

- Implemented bugfixes and new features into Source Academy, an experiential environment used by 1,200+ undergraduates every year for learning
- Co-developed the CSE Machine, a Source-to-Javascript interpreter
- Co-Engineered core features of the Source language, including its control flow, instruction execution order and built-in functions

Signal Operator, Singapore Armed Forces Lancer, Brunei Darussalam

Jan 2022 - May 2024

- Set-up industrial-scale networking capabilities, including installation and maintenance of networking hardware and software
- Upgraded camp-wide IT infrastructure to support WiFi 6 while tripling load-bearing capacity and endpoints, leading to a 200% increase in broadband coverage
- Developed a custom Excel VBA macro and database system to streamline administrative forms, re-designed workflow by reducing processing time by 50% and eliminating human error

ADDITIONAL INFORMATION

- Skills: Programming Languages (Python, C, R, Java, SQL, MATLAB, Microsoft VBA, HTML, CSS, Javascript/Typescript), React, Linux/Unix, Git/GitHub, Vercel, Proficient in Microsoft Office Suite
- Languages: Fluent in English and Mandarin (both spoken and written)
- Interests: Learning Japanese, Solving puzzles, Hunting for good food