Kumaravel Yashpreethu

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www.linkedin.com/in/kyashp003 | https://github.com/kyashp | Singaporean

EDUCATION

Nanyang Technological University (NTU), Singapore   **Aug 2024 – Present**
Bachelor of Engineering, Computer Engineering

- CGPA 4.62/5.00 (Current)
- Relevant Modules: Introduction to Computational Thinking, Digital Logic, Linear Algebra for Computing

Anderson Serangoon Junior College, Singapore   **Jan 2020 – Dec 2021**

- *A Levels: 2 Distinctions, 1 Merit*

Temasek Secondary School, Singapore   **Jan 2015 – Dec 2019**

- *O Levels: 3 Distinctions, 5 Merit*

ACADEMIC PROJECTS

Nanyang Technological University, Singapore   **Aug 2024 – Oct 2024**

Introduction to Computational Thinking Module

Project Title: Team Allocation Simulator

Worked in a group to develop a Python algorithm to form fair teams for a 6,000-student course, ensuring diversity by school, gender, and CGPA.

- **Computational Thinking Reflection:** Documented the problem-solving process, including decomposition, abstraction, and algorithmic design, in a well-organized Jupyter Notebook. Included flowcharts and pseudocode to illustrate the logical flow of the program.
- **Algorithm Implementation:** Managed and processed 6,000 student records using only Python's built-in list and dictionaries without any external libraries, implemented a custom algorithm to form balanced teams while handling edge cases. Evaluated team diversity and showcased results with clear visualizations using matplotlib.

INTERNSHIP | WORK EXPERIENCE

Inland Revenue Authority of Singapore (IRAS), Customer Service Officer   **Feb 2024 – Jun 2024**

- Assisted taxpayers with queries related to individual and business income taxes.
- Specialized in resolving complex tax-related concerns.

National Service (Changi Air Base), Security Trooper   **Jan 2022 – Jan 2024**

- Managed security surveillance systems, including troubleshooting malfunctions.
- Liaised with contractors for base maintenance work.

PROJECT

GitHub: https://github.com/kyashp

GitHub Projects

- Snake Game: Developed a classic Snake game in C++ with user-friendly gameplay.
- Ping Pong Game: Designed a simple two-player Ping Pong game using C++.
- Asteroids: Built a space-themed game where players destroy asteroids, implemented in C++.
- Snippets Repository: Book summaries repository for readers, implemented a database using SQL to integrate with my GUI in Java.

SKILLS

- **Programming Languages:** C++, C, Java, Python
- Tools and Platforms: Git, Microsoft Office, Windows
- Soft Skills: Communication, Teamwork, Problem-Solving
- Languages: Fluent in English and Tamil

ACHIEVEMENTS

- Honourable Mention, Singapore Physics League (2021)
- 2nd Place, ASR Badminton Internal Tournament (2021)
- Certificate of Distinction, Singapore Youth Festival Drama (2017)

HOBBIES

- Programming, Chess, Volleyball