

## **EDUCATION**

### **Singapore Management University (SMU)**

**Singapore**

*Bachelor of Science (Computer Science)*

*Aug 2023 – May 2027*

- Concentrations: Software Development, Data Analysis, Machine Learning
- Relevant Coursework: Statistical Thinking for Data Science, Computer Hardware and Embedded Systems, Collaborative Software Development, Linear Algebra for Computing Applications, Data Structures and Algorithms, Interconnection of Cyber-Physical Systems.

### **Jurong Pioneer Jurong College (JPJC)**

**Singapore**

*GCE A-Levels*

*Feb 2019 – Dec 2020*

- Top 10% of the school's cohort.
- Achieved an 'A' grade in GCE A-Levels Mathematics.

## **PROFESSIONAL EXPERIENCE**

### **The Next Lap – Part-Time Tutor**

- Educated students in Mathematics, English and Science at Primary School Level, from Primary 1 to Primary 6.
- Educated Mathematics, Chemistry and Physics at Secondary School Level, from Secondary 1 to Secondary 4.
- Customized teaching approaches to accommodate unique learning paces and styles, ensuring comprehensive understanding of concepts.
- Created personal lesson plans tailored to each student's strengths and weaknesses.
- Leveraged personal academic experiences to relate to the student's challenges and further offer effective coping strategies.
- Enhanced learning outcomes by going beyond the standard provided materials, sourcing additional resources and challenges to gauge the student comprehension of the topics.

### **Friends2Gather Community Service – Mentor**

*Jan 2024 – Dec 2024*

- Partnered with Life Community Services Society to mentor children from underprivileged families.
- Built trusting relationships, providing emotional support and encouragement to the children's lives.
- Collaborated with other mentors and the Friends2Gather staff to design engaging activities to conduct for the weekly sessions.
- Shared weekly feedback to track the children's progress and to modify the mentorship strategies accordingly.

### **Singapore Police Force – National Service**

*Apr 2021 – Aug 2023*

- Performed Border Patrol and Ground Patrol.
- Worked together with multiple government agencies.
- Attended police cases and performed crime prevention duties.
- Managed multiple events and projects for the welfare of officers in the division.
- Volunteered to help at-risk youths and provide mentorship for them.
- Received multiple Commander's Awards under 'Lima' Division for Operational Excellence.
- Attained title of 183<sup>rd</sup> Intake Valedictorian.

## **PROJECTS**

### **RallyRank: Tennis Matchmaking and Tournament Management Web Application**

*CS203 – Collaborative Software Development*

- Collaborated as a team to create a platform using Agile methodologies to provide tools for tennis players and RallyRank administrators.
- Designed features for administrators to execute CRUD operations on tournaments and players, including automated matchmaking for players using a custom Elo ranking algorithm for equitable competition.
- Engineered an interactive and user-friendly interface using React, JSX and Axios, incorporating tools such as JavaScript and Tailwind CSS to streamline efficient code design. [Frontend]
- Developed and implemented a robust monolithic architecture with Spring Boot and MongoDB for database management. [Backend]
- Refined technical through group and pair programming, fostering code design improvements and structural enhancements.
- Coordinated frequent stand-up meetings to streamline project communication, resulting in a decrease in development delays and ensuring alignment across the team for task priorities and deadlines.

- Demonstrated adaptability by proactively acquiring new software tools and coding techniques, expanding skill set and contributing to project success.

### **HundredForNow Card Game**

#### *CS102 – Programming Fundamentals II*

- Collaborated as a team to create and design an original card game, programmed in Java programming language.
- Championed the coordination of a diverse team, enhancing project execution by establishing clear timelines and optimizing resource allocation to meet 100% of the project deadlines.
- Developed the game mechanics and rules from scratch, to ensure balanced and engaging gameplay, promoting critical decision and strategy making.
- Demonstrated Object-Oriented Programming (OOP) principles by applying encapsulation and abstraction.
- Adopted key software design principles, such as the Single Responsibility Principle (SRP), and ‘Keep It Simple, Stupid’ (KISS) principle.
- Strengthened expertise in Java, improving the technical skills and refining logic used for problem-solving.
- Enhanced team-building skills through collaborative brainstorming sessions.

### **CO-CURRICULAR ACTIVITIES AND LEADERSHIP EXPERIENCE**

#### **SMU Floorball – Member**

*Aug 2023 - Present*

- Engaged in team training session and competitive matches with a focus on teamwork and discipline.
- Demonstrated commitment to personal and team growth through active participation in the CCA.
- Exhibited strong time management and organizational skills while balancing academic responsibilities.
- Played a pivotal role in helping the team secure a third-place finish in the 2024/25 SUNIG.

#### **Jurong Pioneer Junior College – House EXCO**

*Feb 2019 – Oct 2020*

- Orchestrated major school events, including House EXCO Bonding Day, House-initiated Events, Launch of JPJC House Identity, and JPJC’s Inter-house Games.
- Collaborated with team members to plan and execute various bonding activities aimed at fostering cohesion amongst students within the House and between different Houses.
- Demonstrated critical thinking and problem-solving skills to ensure smooth event execution and to resolve any issues that arose, spontaneously.
- Mentored and delivered presentations to students on different activities to enhance public speaking skills.

### **AWARDS**

#### **Ministry of Education**

- Edusave Good Progress Award (2020)

#### **Singapore Police Force**

- Commander’s Award – Project Team Award (Quarter 4, 2021)
- Commander’s Award – Outstanding Officer Award (Quarter 2, 2022)
- SPF Service Champion Award (2022)
- Commander’s Award – Operational Excellence Award (Quarter 4, 2022)
- Commander’s Award – Operational Excellence Award (Quarter 1, 2023)
- Commander’s Award – Operational Excellence Award (Quarter 1, 2023)

### **SKILLS & INTERESTS**

#### **Skills**

- Language: Proficient in English and Malay Language; Basic Korean Language
- Programming Languages: Python, Java, C, JavaScript, SQL, HTML/CSS
- Frameworks/Tools: React, Spring Boot, MongoDB, Tailwind CSS
- Interests: Floorball, Football, Hockey, Movies and TV.