

Ho Kei Ching

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EDUCATION

- **National University of Singapore** **Est. 2030**
Singapore
- Offered Double Degree Program in B.Comp (Computer Science) (Hons) and B.Sc in Mathematics
- Offered the NUS Merit Scholarship

Nanyang Junior College **Dec. 2022**
Singapore

- Scored 6 distinctions
- Subjects studied: Physics, Chemistry, Mathematics, Economics, General Paper, Project Work
- Attained maximum possible rank points (90) for university admissions

Bowen Secondary School **Dec. 2020**
Singapore

- Scored 7 distinctions
- Top in school for L1R5
- Offered the Edusave Scholarship for Independent Schools

PROJECTS

- Created a Discord bot using Python and Discord's API to stream music from YouTube, enhancing user experience for my friends with seamless music playback
- Created a Telegram bot leveraging LTA's DataMall API to provide real-time bus arrival timings across Singapore
- Participated in Hacknosis: Sustainable MedTech virtual hackathon, where I developed a project that utilized AWS IoT APIs to detect temperature anomalies in refrigerated containers using Isolated Forest training model.
- Created an algorithmic trading bot using Python, Pandas, NumPy and ML algorithms to simulate the average historical returns of the S&P500 using an unsupervised learning trading strategy.
- Personal Portfolio Website (Built using HTML, CSS, JavaScript) hosted on <https://snowcrashcode.github.io/Portfolio>

COURSEWORK

- Harvard CS50x: Harvard's flagship introduction course to the intellectual enterprises of computer science.
- Java Programming I and II by University of Helsinki: Algorithms and OOP taught using Java
- Haskell MOOC I and II by University of Helsinki: Functional programming course taught using Haskell
- The Odin Project's Foundation course: Learnt essential Front-End skills, including HTML, CSS, JavaScript, React
- MIT's The Missing Semester: Learnt about the Linux OS, bash scripting and vim

TECHNICAL SKILLS

- **Languages:** Java, C++, Python, SQL, HTML, CSS, JavaScript, Haskell
- **Software:** MS Excel, PowerPoint, Word, VS Code, IntelliJ Idea
- **Technologies/Frameworks:** GitHub, Docker, Kubernetes, ML Libraries (NumPy, Pandas)

VOLUNTEERING EXPERIENCES

Budget Budd

July 2024 – Present

- Development Executive
- Spearhead development projects, enhancing financial education accessibility for disadvantaged communities

CompetifyHub

2024

- Used LaTeX to write sample US Olympiad problems and solutions for student-ran mathematics Olympiad competitions

Community Services

2020 - Present

Singapore

- Cared and assisted workers in looking after the elderly
- Involved in a student-initiated workshop to teach the elderly useful technology skills, such as how to navigate their smartphones and social media applications

OTHER INTERESTS & EXPERIENCES

- **Languages:** English (Fluent), Chinese (Proficient)
- Managed administrative tasks as a manpower clerk in National Service, utilizing Microsoft Word and Excel to streamline data handling processes
- Will be released from Full-Time National Service on 26 January 2025
- Beginner Level in Kubernetes/DevOps (CI/CD)
- Personal Interests: Music, Piano, Gaming, Working out, Cyberpunk