

WANG KANG EN ETHAN

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EDUCATION

National University of Singapore

Bachelor of Computing in Computer Science

- Current GPA: 4.65

Jul 2023 - Jul 2027

Raffles Institution

H2 PCME, H3 Game Theory

- 90 RP, H3 Distinction

Jan 2019 - Dec 2020

TECHNICAL SKILLS

- Programming Languages: Python, Java, C, Javascript, HTML, CSS, Bash
- Technologies: React Native, NodeJS, Expo, Google Maps API, Firebase (Authentication, Realtime Database, Firestore)
- Operating Systems & Low-level Architecture: Linux, UNIX commands, MIPS architecture
- Networking: Familiar with network protocols (TCP/IP), UDP, socket programming, experience implementing client-server architecture for real-time multiplayer applications

PROJECTS

NUS Orbital 2024 - Apollo Achievement Level

- Designed and developed Android multiplayer pet battling mobile game in Java using LibGDX
- Integrated Google Maps API for location-based gameplay and Firebase Realtime Database for real-time data sync
- Implemented client-server architecture using Kryonet, managing real-time communication between players
- Leveraged AI tools to streamline creation and refinement of 2D pixel art designs

Jun 2024 - Jul 2024

LazyCal - Smart Calendar iOS Application

- Built a smart calendar app using React Native and Expo with NLP functionality from Javascript's Chrono-Node for automatic event creation
- Achieved #4 ranking on Top Paid Productivity Apps in the Apple Store as of July 29, 2024

Jul 2024

EXPERIENCE

Residential College 4, CSCTech member

- Spearheading development of an interactive front-end display system for lift lobby TV, designed to enhance student engagement and participation

Aug 2024 - Present

National University of Singapore, Student Teaching Assistant

- Led tutorials for a class of over 25 students in CS1010E (Programming Methodology), providing hands-on coding support and academic guidance
- Guided students and delivered individualised feedback to improve understanding of core programming principles

Jul 2024 - Nov 2024

VOLUNTEER EXPERIENCE

- Member of College Students' Committee Tech Subcommittee - Working on student life related technologies
- NUS SOC Youth Empowerment, Code Camp 2024 - Taught Python to primary school children at Campus Impact
- Tobacco Free Generation 2018-2020 - Engaged in campaigns aimed at reducing youth smoking rates
- RI Empowering Gen Z 2020, Vice Chairperson - Led a community service project to provide free tuition at local community centres

LEADERSHIP EXPERIENCE

- Raffles Institution Symphonic Band (2019-2020) - Vice Chairperson
- Empowering Gen Z (2019-2020) - Vice Chairperson

COURSES

- Google Cybersecurity Certificate (SCS Google Career Scholarship Programme) — Ongoing
- Self-learning: TryHackMe (Cybersecurity labs and challenges)