

# Nguyen Khoi Nguyen

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## EDUCATION

### NATIONAL UNIVERSITY OF SINGAPORE

Aug 2022 - May 2026

Bachelor of Computing in Computer Science

- Dean's list in Semester 1, AY 22-23
- Second Major in Mathematics

## EXPERIENCE

### NUS SCHOOL OF COMPUTING *Teaching Assistant*

Aug 2023 - Current

- Guided junior computer science students in achieving understanding of content in computer science modules.
- Modules taught: Programming Methodology (CS1101S), Programming Methodology II (CS2030S), Data Structures and Algorithm (CS2040S)

### DECISION SCIENCE AGENCY *Intern*

May 2023 - Aug 2023

- Implemented web and mobile front-end interface integrated into Singlife grow and elevate system using AlpineJS, SCSS, Tailwind, React Typescript and EmotionCSS, enhancing user experience of thousands of users.

## PROJECTS

- Developed Xiangqi engine using various techniques from Stockfish, ranking among the members of NUS Xiangqi club. Code base: <https://github.com/nknguyenhc/CS3263-project>
- Collaborated with team-mates to develop WATcher, an application to monitor software development projects, enabling software engineering students to quickly view their progress, with Angular, Typescript, and GraphQL. Code base: <https://github.com/CATcher-org/WATcher>
- Collaborated with team-mates to engineer and fine-tune algorithm to fight in head-to-head tower defence game in Terminal AI Live competition (Fall APAC 2023), clinching overall team third place. Code base: <https://github.com/nknguyenhc/Terminal-Lostkids>
- Engineered backend and mobile frontend for PayDay, a mobile application to reduce risks of online payment for a wide range of users for Tiktok Hackathon 2023, with Expressjs, Firebase, and React Native, short-listed to final. Submission: <https://devpost.com/software/payday-digital-wallet>
- Coordinated team to create Parody Generator, an app that draws songs from Youtube and replace video with images from Stable Diffusion, creating fun parodies of popular songs for users with Youtube API, OpenAI, Stable Diffusion. Code base <https://github.com/nknguyenhc/hacknroll2024>
- Developed Quack-NKN, a Telegram bot to track websites and deliver reminders with Typescript, Telegram API and Puppeteer. Prototype [https://t.me/website\\_tracker\\_bot](https://t.me/website_tracker_bot) , code base <https://github.com/nknguyenhc/quack-nkn>

## TECHNICAL SKILLS

- Techstacks: Python | Django | React | Typescript | Angular | NodeJS (Express) | FastAPI | Flask | SQL | C++ | Java | Firebase | GraphQL | AlpineJS | Godot | Docker | Azure | Puppeteer | OpenAI | StabilityAI

## AWARDS AND SCHOLARSHIP

- Award: Terminal (by Correlation One and Citadel) – Fall 2023 APAC – third place
- Award: Tiktok Hackathon 2023 Finalist
- Honour: NUS School of Computing, Top Student in Software Engineering
- Honour: NUS School of Computing, Dean's List (AY 2022-2023 Semester 1)
- Honour: NUS School of Computing, Top Student in Programming Methodology
- Honour: NUS School of Computing, Top Student in Discrete Structures
- Scholarship: NUS ASEAN Undergraduate Merit Scholarship
- Award: Singapore Physics Olympiad 2020 - Gold
- Award: Singapore Mathematical Olympiad 2019 (Open Section) - 20th Rank and Gold

## EXTRA CURRICULAR ACTIVITIES

### NUS GAME DEVELOPMENT GROUP, Workshop Lead

Aug 2022 - Present

- Lead workshops on Godot game development engine for new members in Academic Year 2023-2024, equipping members with game development skills within 4 weeks and elevate members' game development skills.
- Elevate members' knowledge and skills in Godot with higher-level workshops throughout Semester 2 of Academic Year 2023-2024.