

Nguyen Khoi Nguyen

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Aug 2022 - May 2026

Bachelor of Computing in Computer Science

- Dean' list in Semester 1, AY 22-23
- Second Major in Mathematics
- Relevant courses: Software Engineering, Introduction to AI and ML, Effective Communication for Computing Professionals, Data Structures and Algorithms (A+), Programming Methodology II (A+), Programming Methodology (A+), Discrete Structures (A+), Linear Algebra (A+), Calculus for Computing (A+)

EXPERIENCE

PROGRAMMING METHODOLOGY MODULE (CS1101S) *Teaching Assistant*

Aug 2023 - Nov 2023

- Guided year 1 computer science students in achieving understanding of basic methodologies in programming.

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

- Led a group of students to develop web frontend and backend for MatchMiner platform, an interest-sharing platform (prototype <https://matchminer.fly.dev/> , code base <https://github.com/nknguyenhc/SuperCellMates>), using Django, PostgreSQL, ReactJS, SCSS, Bootstrap, Redux, reducing social media pressure and encouraging interest sharing.
- 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.
- 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 Nodejs (Express), Firebase and React Native, short-listed to final (submission available at <https://devpost.com/software/payday-digital-wallet>).
- Directed a group of students to create NeuralCats, a website leveraging OpenAI to generate practice quizzes, aiding students in revising module content for exams (prototype <https://neuralcats.azurewebsites.net/> , code base <https://github.com/nknguyenhc/Neuralcats>), with FastAPI, React, EmotionCSS, Redux.
- Investigated mechanisms of coding schemes with C++ and constructed a simulation page to educate users of various available error-correcting codes with Nodejs (Express) and ReactJS (code base available at <https://github.com/tranvietkhoa/Coding-Schemes-Simulation>).

TECHNICAL SKILLS

- Techstacks: Python | Django | React | Typescript | Redux | NodeJS (Express) | FastAPI | Flask | SQL | C++ | Java | React Native | Firebase | AlpineJS | SCSS | EmotionCSS | PUG HTML | Tailwind | Bootstrap | Godot | Docker | Azure | AWS

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, 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.
- Collaborated with group members to produce Guardian of the Dreamy World, a platformer game within a less than half a year, available at <https://flamboyyy.itch.io/guardian-of-the-dreamy-world> .