

# YU CONG KOO

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## EDUCATION

**National University of Singapore**

**Aug 2022 - May 2026**

**Bachelor of Computing in Computer Science, Minor in Quantitative Finance**

- GPA: 5.0 / 5.0, Dean's List for AY 2023/2024 Semester 1
- Top Student Award:
  - CS1231S Discrete Structures (class size 842)
  - CS2030S Programming Methodology II (class size 751)
  - CS2105 Introduction to Computer Networks (class size 446)
  - CS2103T Software Engineering (class size 438)
- Undergraduate teaching assistant with overall rating 4.8 / 5:
  - CS1101S Programming Methodology I
  - CS2103T Software Engineering
- Focus Area: Parallel Computing, Software Engineering, Algorithms & Theory
- Technical skills: Java, C, Javascript

## WORK EXPERIENCE

**Software Engineer Intern, GIC Private Limited, Singapore**

**Jan 2024 - Aug 2024**

- Collaborated with a Scrum team consisting of 9 software engineers to iteratively implement a full-stack software solution for portfolio managers in Securities Financing team, enhancing scalability and reliability of multiple workflows by more than 50%.
- Delivered firmwide Internal Securities Borrowing and Lending (ISBL) feature, envisioned to reliably increase utilization of internal securities by 80%, providing GIC with a robust cross-portfolio lending framework with recall management.
- Migrated deployment pipeline from Jenkins and CloudBees to Github CI/CD workflows, reducing deployment time from over an hour to under 10 minutes, boosting team productivity by enabling faster and more reliable deployments.
- Engineered a Python automation script to streamline preparation of development data environments, saving up to 30 minutes daily.
- Technical skills: C#, Python, React TS, KDB+, Postgres, TDD, BDD, OOP, Pair Programming

**Front End Engineer Intern, Tencent Holdings Ltd., Singapore**

**May 2023 - Aug 2023**

- Collaborated with a team of 20, consisting of Software Engineers, QA Engineers, Product Managers and UI/UX Designers to deliver an AI Generative Content tool, envisioned to enhance productivity and creativity of game development.
- Studied source code of up to 10 different Flutter libraries and contributed to more than 5000 lines of code in production, applying the Model, View, Controller (MVC) architecture thoroughly.
- Implemented an interactive text field for a text-to-sound (TTS) feature using the Flutter framework, allowing users to adjust specific settings of a text including volume, pitch, speed, pronunciation etc.

## EXTRA CURRICULAR ACTIVITIES

**Student Residential Leader, Prince Georges Park Residences (PGPR), Singapore**  
**Present**

**Aug 2023 -**

- Led a group of 15 residents, from Malaysia, Vietnam, Philippines, China and Singapore, promoting Diversity, Equity and Inclusion (DEI) among residents.
- Partnered closely with 2 Resident Fellows and 2 Resident Assistants to monitor residents' wellbeing and welfare, acting as a key communicator between residents and management officers.