



# Nguyen Duy Khang

3<sup>rd</sup>-year Student

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## Profile

I am a third-year Computer Science student at HCMUT - Ho Chi Minh University of Technology and I am interested in pursuing a Software Engineer career, with a particular focus on Backend Engineering.

In my free time, I keep up-to-date with the latest technology news and work on side projects. I have a keen interest in programming language designs and creating products that people will enjoy using.

## Education

**Computer Science Honors Program** @ HCMUT

Passed all required modules. Oct 2021 - *current*

**Bachelor of Computer Science** @ HCMUT

Current GPA: 8.8 / 10.0. Oct 2020 - *current*

## Activities

**Teaching Assistant** @ HCMUT

**Language:** C++. Oct 2022 - *current*

I was in charge of three lab courses: Intro to Computing, Programming Fundamentals and Data Structures and Algorithms. In these courses, I helped students learn the basics of computing and programming, as well as more advanced topics like data structures and algorithms.

**Volunteer** @ Chung Ta Cung Tien

**Academic Subject:** Calculus. Dec 2020 - Dec 2021

As a member of the Department of Academics and later Head of Academics, I helped HCMUT students learn Calculus by organizing study sessions, mock exams, and managing online resources.

## Skills

### Web Development

I am experienced at fullstack web development. I have worked with various web frameworks, notably Svelte/SvelteKit and Tailwind CSS, and mostly used TypeScript.

### System Programming

I gained experience in low-level programming from my university courses, such as manual memory management and network programming. I am comfortable with C++ and Rust.

### Toolings

I have knowledge on how to use tools to enhance my workflow, such as Docker, Git, GitHub and GitHub Actions.

## Projects

[**BKalendar**] May 2021 - *current*

**Link:** [Demo](#) · [Source](#)

**Role:** Fullstack Developer.

This tool allows students to import HCMUT timetables to Google Calendar. With this tool, students can easily manage their schedule and stay organized on Google Calendar.

*Result:* Thousands of HCMUT students used and found it helpful.

This project involved the skills to read and apply specifications such as the RFC 5545 for iCal, handle dates and integrate Google OAuth2 and Google Calendar API into an application.

[**Document Repository**] Sep 2021 - Dec 2021

**Links:** [Demo](#).

**Role:** Fullstack Developer.

This website is designed to share learning materials from Chung Ta Cung Tien with HCMUT students and focuses on custom components such as emphasis on important information and interactive quizzes. Students can easily access learning materials to get better academic results.

*Result:* ~500 visits every day during Oct 2021 to Dec 2021.

I learned about the bus factor and the value of internal documentation in Software Engineering for ensuring maintainability through this project.

[**Mock Examiner**] Jun 2021 - Dec 2021

**Links:** [Demo](#).

**Role:** Frontend Developer in a 4-person team.

This website provides user interfaces for both examinees and exam authors to organize mock exams. This helps students experience mock examinations when COVID-19 was still around.

*Result:* ~300 students participated per exam, with 4 exams per semester, over 2 semesters.

This was my first real-world *team* project. I learned the basics of working in a team, such as Git workflows, regular stand-up meetings and how different people develop software.

[**Monotonicity Table Maker**] Sep 2020

**Links:** [Demo](#) · [Source](#).

This tool parses simple monotonicity table construction language and generates MathJax/LaTeX code. This saves a lot of time spent making those tables by hand.

*Result:* My underclassmen and friends used and liked it.

This project was my first *usable* software product. I learned functional programming and its principles, such as pure functions and side effects. This project helped me improve my programming skills and mindset.