# Nguyen Duy Khang

3rd-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 career as a Software Engineer, 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 memory management and network programming from university courses. I am comfortable with C++ and proficient in 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 - Sep 2022

**Link**: Demo · Source
**Role**: Fullstack Developer.
**Technologies**: SvelteKit, Tailwind CSS, Google OAuth 2.0, Google Calendar API.

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.

I learned how to work with dates and times.

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

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

**Links**: Demo.
**Role**: Fullstack Developer.
**Technologies**: SvelteKit, Tailwind CSS, Notion API Beta.

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.

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

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

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

**Links**: Demo.
**Role**: Frontend Developer in a 4-person team.
**Technologies**: NextJS, Tailwind CSS, Firebase.

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.

This was my first real-world team project. I learned how other people develop software through observing the team.

**Result**: ~300 students / 1 exam and 4 exams / 1 semester over 2 semesters.

**[Monotonicity Table Maker]**    Sep 2020

**Links**: Demo · Source.
**Role**: Fullstack Developer.
**Language**: Elm.

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.

This was my first usable piece of software.

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