

Timothy Choi

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Education

Technical University of Munich

Exchange

Germany

2024

The University of Adelaide

Bachelor of Mathematical and Computer Sciences, GPA: 6.33/7.0

Australia

2022 – 2025

Experience

Dassault Systèmes

Software Engineer

Germany

2024 May – 2025 Mar

- Working on the appearance core team to provide materials to countless apps in the 3DEXPERIENCE platform

Altacomm Technologies

Software Engineer Intern

Australia

2024 Jan – 2024 Mar

- Building a full-stack contact us and media release page with Rust, Actix, and Astro
- Polishing up the company landing page by increasing the responsiveness and adding animations

Global Technology Integrator

Network / System Engineer

Hong Kong

2021 Aug – 2021 Nov

- Spearheading the automation and parallelization of our tasks
- Helping resolve our staff shortage by reducing the manpower and time required by ~200%
- Mentoring new staff, helping them understand the technology

Projects

Block Model Compression Algorithm (tinnamchoi.github.io/projects/bsoc)

C++, Algorithm Design, OOP, Git, Agile

2023 Aug – 2023 Oct

- Implementing octrees to compress 3D data in $O(N \log_8 N)$ time
- Employing agile methodologies for a group of 7
- Enforcing good Git practices such as using conventional commits

Binary Search on Color (tinnamchoi.github.io/projects/bsoc)

Algorithm Design, JavaScript, HTML, CSS, Web Development

2023 Mar – 2023 Nov

- Using the binary search algorithm to find the color that is closest to the user's desired color
- An attempt to combat indecisiveness when it comes to choosing colors

Hare-Clark C++ (tinnamchoi.github.io/projects/hcc)

C++, CMake

2024 Mar – 2024 Mar

- Seeing how the CS Club committee was struggling to debug the hcvote Python library, I created this C++ library as a sanity check
- In the process of creating this program, I discovered multiple flaws in the original library, and decided to release this as a better alternative

Malcolm bot (in-progress)

API, SQLite, Python

2023 Nov – 2024 Feb

- Access the LeetCode, Codeforces and CLIST API to conveniently fetch corresponding information
- Store database of past solved problems per user to generate graphs and statistics

Volunteering

Adelaide Rover Team

Software Developer

Australia

2023 Jul –

- Employing best practices for seamless coordination and optimal outcomes
- Consolidate constants for streamlined management and easy access

The University of Adelaide Computer Science Club

Committee Member

Australia

2022 Dec –

- Facilitating the development of the website and automating the election process

Skills & Achievements

Languages

Proficient: C++

Intermediate / Beginner: Bash, C, CSS, HTML, JS, \LaTeX , MATLAB, Python

Human: English (fluent), Cantonese (native), Mandarin (advanced), German (beginner)

Prizes

Subject prize: Information and Communication Technology 2021

Achiever of the best results amongst peers

Scholarships

University of Adelaide: 30% Global Citizens Scholarship

Best possible scholarship for international students