

THANH BUI

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EDUCATION

University of Cambridge, Downing College

2016 – 2020

B.A & M.Eng in Computer Science

• **Result:**

- Part IB: 2.i (GPA: **3.7/4.0**)
- Part IA: 1st (GPA: **4.0/4.0**)

- **Singapore-Cambridge GCE A-Level:** ◇ University Admission Scores: **90/90**
◇ Number of Distinctions: **8/8**

WORK EXPERIENCE

• **Barclays PLC**

Software Engineer Intern

Jun 2018 – Aug 2018

Northampton, United Kingdom

- Built a dashboard that captures the performance of colleagues' workstations.
- Responsible for the back-end development by writing **Javascript** scripts to retrieve data from a Microsoft SQL Database, process and transfer to display in the front-end.
- Assisted teammates on **Javascript** and **jQuery** while learning new frameworks such as **ReactJS**.
- Work-shadowed teams, Directors and Managing Directors from different areas across the bank to understand the business as a whole.

• **CSAT Practice [+]** Platform

Content Developer

Jun 2018 – present

University of Cambridge, United Kingdom

- Developing a practice platform for potential Computer Science applicants to the University of Cambridge.
- Continue to add more materials based on sample and past CSAT questions, including warm-up questions, progressive hints and full solutions.
- <https://www.cl.cam.ac.uk/admissions/undergraduate/csat/practice>

• **Frontier Developments PLC**

University Group Project

Jan 2018 – Mar 2018

Cambridge, United Kingdom

- Developed a VR Ping-Pong Game using **Unity** engine for a client (*Frontier*).
- Handled the physics of the game by writing **C#** scripts for every component.
- Worked in a team of 6 in a professional environment with formal documentations and regular meetings.

• **Boston Consulting Group (BCG)**

Market Research Intern

Jun 2016 – Sep 2016

Ho Chi Minh, Vietnam

- Collected and processed market data of a range of different products.
- Increased the accuracy in data processing and timing by creating **Visual Basic for Applications (VBA)** script program to automate data transfer and display from *.csv* to *Microsoft Excel* file.
- Analyzed the price-region distribution and consumers' preference from the data using **Python**.

• **MathVision Enrichment Center**

Computing, Physics & Mathematics Tutor

Jan 2016 – Jun 2016

Singapore

- Tutored International Baccalaureate (IB) and Cambridge IGCSE students (grade 7 to 12).

SKILLS

Programming	Languages	Java, Python, C/C++, Ocaml, ML, HTML, CSS, Javascript (intermediate), C#, R, MATLAB, SQL, Prolog, LISP (basic).
	Tools & Frameworks:	Git, Unix Tools, ReactJS, Spring Boot, Jenkins, Docker, Cucumber
	Platforms:	Windows, Linux, MacOS
Language	Vietnamese (native), English (fluent), French (basic)	

PROJECTS

- **A chat application**
 - Wrote a chat application in **Java** using the client-server paradigm.
 - **Github:**/ttbui11/chat-client-server
- **GameGig 3000 Hackathons**
 - Simple games written in **C++** using **SFML** to participate in the annual game hackathon by *Hackers at Cambridge*. Won **1st prize** in 2017, **runner-up** in 2016.
 - **Github:**/ttbui11/gamegig-2017, /ttbui11/gamegig-2016
- **Mars Lander**
 - Applied physics and **control theory** to build a Mars-landing probe simulator in **C++**.
 - **Github:**/ttbui11/mars-lander
- **Conway's Game of Life Simulator**
 - Applied **Object-oriented Programming** concept to build a John Conway's *Game of Life* simulator in **Java**.
 - **Github:**/ttbui11/game-of-life
- **Engine X**
 - Self-learned the basics of game development by building a simple game engine, which was used to build a game based on *Tank 1990*.
 - **Github:**/ttbui11/engineX

HONOURS & AWARDS

- **Jardine Foundation Scholarship (Jardine Matheson)** 2016 – 2020
 - Earned the full 4-year scholarship to read a degree in Computer Science at the University of Cambridge.
- **Agency for Science, Technology and Research (A*STAR) Scholarship** 2012 – 2015
 - Earned the full 4-year scholarship to study Singapore-Cambridge GCE O-Level and A-Level in Singapore.
- **Singapore Mathematical Olympiad** 2014 – 2015
 - Achieved **Gold Medal** (2015), **Silver Medal** (2014).
- **Singapore Physics Olympiad** – Achieved **Silver Medal**. 2014
- **Old Victorians' Association Gold Medal** 2015
 - Earned the Victoria Gold Medal for **Best Student** in the Singapore-Cambridge GCE A-Level.

OTHER ACTIVITIES & INTERESTS

Music	President of Victoria Junior College Guitar Ensemble (2014 – 2015)
Sports	Member of Downing College Badminton Team (Jun 2018 – present) Captain of Downing College Football Team (Nov 2017 – Jun 2018)
Trading	Member of Cambridge University Algorithmic Trading Society (Nov 2017 – present)

References available upon request.