

Benn Tay Guobin

Address: Block 442 #05-472, Fajar Road, Singapore 670442

Handphone number: +65 9624 7425

Telephone number: 6717 8807

School email address: e0176080@u.nus.edu

Personal/Work email: benntayguobin@hotmail.com/benntayguobin@gmail.com

Github: <https://github.com/BennTay>

Objective

I aim to expand my knowledge and experience in computer science, as well as in interpersonal professional relations, by interning in a department with heavy emphasis on computing and technology. I hope to work with like-minded programmers and mentors who can guide my continuous growth so that I may more quickly develop into a valuable and indispensable member of Singapore's tech force.

Summary

I am proficient in programming in Java, C and Python. I am able to pick up new programming languages quickly with my prior knowledge. I have theoretical and practical knowledge of programming concepts such as Object-Oriented Programming and Functional Programming, as well as data structures and algorithms. Additionally, I am also familiar with software engineering design principles/patterns, practices (like quality assurance through unit testing) and paradigms (such as Scrum, sequential waterfall SDLC and iterative SDLC), having worked with a team on a >10,000 code base to produce a working and usable desktop application. Additionally, I am also experienced in using IDEs and GitHub.

If I face any complications with my work, my proactiveness and resourcefulness compels me to seek out a solution before requesting others for help. When people do teach me, my positive learning attitude and eagerness for knowledge makes it easy to bring me up to speed with anything I am required to know. I am responsible, focused, work-oriented, and my love for programming enables me to concentrate on work for long periods of time with minimal distractions in order to get things done. My amicable and compromising nature makes me an approachable peer as well as a committed team player who works splendidly with others.

Education

GCE A-LEVEL GRADUATE | ANDERSON JUNIOR COLLEGE | 87.5 (RANK POINTS) | 2014

- H1 General Paper: A
- H1 Economics: A
- H1 Project Work: A
- H2 Biology: A
- H2 Mathematics: A
- H2 Chemistry: B

Core Computing Modules:

- CS1010 (Programming Methodology)
- CS1231 (Discrete Structures)
- MA1101R (Linear Algebra I)
- CS2030 (Programming Methodology II)
- CS2040 (Data Structures and Algorithms)
- IS1103 (IS Innovations in Organisations and Society)
- MA1521 (Calculus for Computing)
- CS2100 (Computer Organisation)
- CS2103 (Software Engineering)
- ST2334 (Probability and Statistics)
- CS2105 (Introduction to Computer Networks)
- CS2106 (Introduction to Operating Systems)
- CS3230 (Design and Analysis of Algorithms)
- PC1221 (Fundamentals of Physics I)

Other Modules:

- WR1401 (Workplace Readiness)
- GET1025 (Science Fiction and Philosophy)
- CFG1010 (Roots and Wings - Personal and Interpersonal Effectiveness 1.0)
- ES1601 (Professional and Academic Communication)
- GEQ1917 (Understanding and Critiquing Sustainability)
- GER1000 (Quantitative Reasoning)
- ALS1020 (Learning to Choose Better)
- GEH1030 (Science of Music)
- GES1028 (Singapore Society)

Skills and Qualities

- Java
- Python
- C
- JavaScript
- HTML
- CSS
- Software Engineering
- Highly self-motivated
- Passion for learning and knowledge
- Team player
- Proactive
- Resourceful
- Responsible

- Focused
- Good people skills

Projects

SOUS CHEF

- As part of my Software Engineering module, my team and I conducted a brownfield development approach to create a viable desktop application consisting of >10,000 lines of Java code. *Sous Chef* functions as a recipe book, meal planner, ingredient inventory manager and health tracker all in one. (<https://github.com/CS2103-AY1819S1-W10-4/main>)

Achievements

MILITARY (NATIONAL SERVICE)

- Achieved the award for the 9th Singapore Infantry Regiment Battalion's Best Soldier in December 2015. My vigilance, resilience and versatility in military operations for the protection of Singapore's key installations gained the commendation of the commanding officer and was recognized in this award.

Work Experience

TEACHER FOR KNOWLEDGE PARK TUITION AND STUDENT CARE (9TH JANUARY 2017 – 3RD FEBRUARY 2017)

As a teacher, my job was to guide and teach the Primary School students with all subjects of their homework as well as maintain discipline and focus among the students.

UKULELE INTRODUCTION WORKSHOP TEACHER (7TH NOVEMBER 2018)

As a self-learned ukulele fingerstylist, I conducted an introductory ukulele class for the student helpers at PitStop@YIH, NUS. This involved crafting my own lesson plan and slides to facilitate the lesson, which included transcribing a number of songs into a musical tab format easily readable for beginners.

TUITION TEACHER FOR TASEK JURONG LIMITED TUITION (JULY 2019)

I taught students ranging from primary to secondary school in their subjects of English, Mathematics and Science (including pure physics, chemistry and biology for the secondary school students).

Volunteer Work

- Participated in an 11-day International Service-Learning project to Yogyakarta, Indonesia. Planned and conducted English lessons and games for children in a nursery, and also helped in the construction of a permanent outdoor shelter. Additionally, we conducted a cultural exchange and painted a wall mural for an orphanage.
- Participated in a 4-day Service-Learning trip to Bintan with a team of undergraduates to help construct safe water gardens in order to provide hygienic sanitation as well as crop-growing gardens for local families.

Extra experience

HACKATHONS

- Hack and Roll 2019

I teamed up with friends in this hackathon to create a mini multiplayer desktop maze game. (<https://github.com/BennTay/PanHacks>)

- HackNTU 2019

My team and I built a web-based drumming application using p5.js targeted to help drummers gain a better sense of rhythm.

- AngelHack 2019

My team and I formulated an extended component to the Grab application which would provide localised crowdsourced itineraries to users.

OTHERS

- Udemy courses
 - *The Complete Web Developer in 2019: Zero to Mastery* by Andrei Neagoie
 - *Learn Ethical Hacking from Scratch* by Zaid Sabih
 - *Hacking Academy: How to Monitor & Intercept Transmitted Data* by IT Security Academy, Hacking School

Others

SCHOOL (CO-CURRICULAR)

- Part of the organizing committee and overall in charge of publicity during a Family Day Carnival which aimed to promote family ties by providing students with a day to bring their families to school and enjoy the game/food stalls together.
- During a Cross-Country Resilience Run, I was part of the organizing committee and in charge of attendance taking as well as recording the distance accumulated by participants. Also performed solo (ukulele) for participants after the run.

Hobbies and interests

UKULELE

Purely through online resources such as YouTube, I am a self-taught ukulele fingerstylist. My utmost passion for the instrument paved the way for my self-motivated education, practice and skill development. To date, I have performed for crowds of over a hundred people per performance and conducted an introductory workshop for people wishing to pick up the ukulele. I seek to continue performing in public as well as teaching more lessons. I have also uploaded some song covers to YouTube and strive to upload more in future.

(<https://www.youtube.com/channel/UCI2D1DLXqjoCsTYowxvpN-Q>)