

Brian Lua Zhi Heng

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Github: github.com/Sealpillow

Scratch: scratch.mit.edu/users/SealPillow/

EDUCATION**Nanyang Technological University, Singapore**

Bachelor of Engineering in Computer Science

Aug 2021 – Apr 2025

Ngee Ann Polytechnic, Singapore

Diploma in Aerospace Electronics

Apr 2016 – May 2019

STRENGTHS

Adaptable to Changes | Goal Oriented | Diligent | Responsible | Independent

PROJECT EXPERIENCE**All in one Flats search**

- It is to enable user to be able search through multiple flats listing site all in one site.
- Design templates with HTML, CSS and JavaScript.
- Understanding of front-end to back-end connection using Flask and database through SQLAlchemy

MapleStory Tri-Core Optimizer

- Based on a MMORPG online game MapleStory.
- Build using Python, with use of backtracking method to optimize combinations of skill core.

Blackjack Simulator

- To Simulate playing Blackjack using online optimal gameplay over a million times.
- Developed using Python, with understanding of simulation

Sales Record API Apache POI

- Target online shopping live streamers to keep track of over 100 orders .
- Build using Java, with understanding of Apache POI to integrate data transfer from command prompt to excel sheets.

Telegram Chat Bot

- To provide emotional/motivation support.
- Developed using Python with implement of simple NLP to converse with chatbot

Scratch Projects

- Design multiple simulations of MapleStory boss fight to improve player mechanics.
- Understanding of use of sprites and 2D character movements
- Project with a view count of 11112

Drone Synchronization Flight

- Showcase project at Innopoly forum event 2019 with over 30 attendees.
- Build it on Python, Packet Sender Software and Tello Edu Drones
- Choreograph drone flight sets with intricate movement of flips and curves.

Mozzie Airlifter

- Collaboration with NEA to create a proof of concept to release Wolbachia Mosquitoes by drone.
- Create it using Arduino, with use of IOT modules.
- Demonstrated proficiency in applying IOT technology to address real-world problems, developing innovative solutions.

COMPETENCIES

Microsoft Office Word, PowerPoint, and Excel | PyCharm | IntelliJ IDEA | Scratch | Arduino | SAP

PROGRAMMING

Java | Python | Scratch | C | ABAP

WORK EXPERIENCE

Data Analyst

Aug 2023 – Dec 2023

NCS, Singapore

- Part of the SAP Developer Team.
- Responsible for handling Change Requests (CRs), involving modifications to programs/websites, with a focus on backend coding and data management.
- Completed 11 Change Requests within a 17-week timeframe
- Exhibited ability to learn and work without supervision in a fast paced environment and working collaboratively with colleagues
- Involved in work such as Career@Gov and Payroll Admin Page.

Project Engineer

Apr 2019 – Jul 2019

Ngee Ann Polytechnic, Singapore

- Tasked to create Synchronised Drone show program.
- Showcased project at Innopoly forum event 2019 with over 30 attendees.
- Exhibited ability to work without supervision while maintaining effective communication with supervisor, time management skills, with ability to prioritize tasks and initiative to research on other drone performance online and include it into project.

ACHIEVEMENTS

Singapore Armed Forces (SAF)

- Appointed as System Warfare Operator
- Promoted to rank of Corporal as of Mar 2021.
- Awarded Outstanding NSF of the Quarter of Jan 2021 to Mar 2021.
- Demonstrated proficiency in areas such as discipline, teamwork, leadership and initiative to mentor junior servicemen in basic military training, providing guidance and support to develop essential skills.

Ngee Ann Polytechnic, Singapore

- Director's List for academic performance for Year 2017
- Awarded Edusave Merit Bursary for Year 2017-2019 for achieving good academic performance and demonstrating good conduct.
- Presented with Certification of Recognition as finalist for the Lee Hsien Loong Interactive Digital Smart Nation Award 2019

Christ Church Secondary School, Singapore

- Awarded Edusave Scholarship in Year 2015, Edusave Award (EAGLES) in Year 2014 and 2015, Edusave Merit Bursary in Year 2014
- Presented Gold Award for 11th Elementz Science Project Competition and Exhibition
- Showcased ability to work collaboratively with team members to design and execute scientific research projects.

CO-CURRICULAR ACTIVITIES

Christ Church Secondary School, Singapore

Badminton – Vice Captain

Jan 2012 – Jan 2015

- Represented School at Inter School Competition for 2012-2015
- Exhibited ability to work collaboratively with over 30 team members to identify areas of improvement and implement necessary changes for overall team success.

LANGUAGES

Proficient in both written & spoken for both English and Chinese Language

INTERESTS

Swimming | Running

REFERENCES

Scottz Lip

Lecturer

Ngee Ann Polytechnic

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Period Known: 2 years