

Ivorine

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EDUCATION

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN

Bachelor of Engineering (Computer Science & Design)

ASEAN Undergraduate Scholar

Cumulative GPA: 4.02/5.00

Co-Curricular Activity

Treasurer of SUTD Bands (Feb 2023 – Mar 2024)

Managed budgeting and transaction records; reviewed and approved reimbursement claims

Outstanding Student Organisation Award

Singapore

September 2021 – May 2025

WORK EXPERIENCE

SINGAPORE AIRLINES – Information Security Intern

August 2023 – December 2023

- Researched and shared application security best practices with developers, increasing secure coding awareness and improving development practices.
- Worked with 5 cross-functional teams to address penetration testing findings, reducing system risks and improving security.
- Led the annual access recertification for 13 departments by coordinating with department representatives to validate access rights for individual users, ensuring compliance with internal security policies and reducing unnecessary system permissions.
- Assisted in the planning and execution of Cyber Week, organizing awareness activities and guest talks to engage and educate other departments on cybersecurity.

PROJECTS

BLOODTHIRSTY (*Management-style action game centered around resource allocation and survival mechanics*)

January 2025 – April 2025

- Collaborated with a team of 6 to build a fully functional Unity game from concept to deployment, combining design, programming, and testing workflows.
- Took up dual roles as Game Programmer and Game Designer, developing core gameplay logic while shaping the game's mechanics, theme, and player experience.
- Built the user interface emphasizing ease of use and visual appeal to enhance player experience.
- Developed and maintained internal systems for memory management and game state handling, enabling smooth transitions between scenes and persistent gameplay features.
- Conducted two rounds of structured user testing across 18 gameplay categories, with the final round achieving an average satisfaction score of 75.6%.

SAFEGAIT (*FYP: Smart system using IMU sensors to analyze walking patterns/gait and estimate fatigue*)

September 2024 – April 2025

- Took charge of mobile app development in a team of 6 using Flutter to collect real-time motion data from wearable IMU sensors via Bluetooth, enabling continuous monitoring of walking activity.
- Transformed raw data into gait statistics like step count and movement pattern to assess fatigue and provide health insights.
- Applied noise filtering techniques to improve data accuracy for better gait analysis, attaining step detection accuracy of more than 80%.
- Integrated data handling with AWS S3 and DynamoDB to support a dashboard that updates every 2 minutes with gait metrics calculated from cumulative step data for remote monitoring.

MARMAL8 (*Mobile app design for discovering and sharing local culture through food, events, and places*)

September 2024 – December 2024

- Worked with a team of 5 to design a mobile UI prototype using Figma, focusing on intuitive navigation and culturally relevant visual design.
- Focused on creating a visually engaging and accessible design to boost user engagement.
- Conducted three rounds of user testing with target users, gathering feedback and iteratively refining the interface, resulting in a usability rating of over 3.5 out of 4.

WAYWISE (*Travel web app for booking rides and planning trips across countries*)

May 2023 – August 2023

- Collaborated in a 6-person team, contributing to the frontend development alongside the UI team.
- Built frontend pages using ReactJS, following design plans to ensure a smooth booking experience and demo-ready product.
- Created system diagrams (UML) to illustrate the app's architecture and workflow.
- Designed and iterated on UI layouts for each web page in Figma, enhancing clarity and user satisfaction.
- Performed automated UI testing with Cypress to ensure smooth user flow and minimize bugs.

ADDITIONAL

Technical Skills: Microsoft Office, Figma, Python, JavaScript, ReactJS, HTML, CSS, C/C++, C#, Unity Engine, Dart, Flutter

Languages: English, Chinese, Bahasa Indonesia

Awards: Winner of APAC regional round and People's Choice Award in global round of Securi'TT Hackathon 2022, Highest score in Indonesia for Cambridge International AS Level Mathematics

06 May 2025

To Whom It May Concern

Eligibility for Employment Pass

1 Ivorine G3791035Q is expected to graduate from Singapore University of Technology and Design and has a Ministry of Education bond obligation to serve in Singapore.

2 This letter serves to inform you that the Singapore government will exercise flexibility in the assessment of the Employment Pass application of Ivorine. You should also use the Self-Assessment Tool on the Ministry of Manpower's website for an indicative assessment on whether the applicant qualifies for an Employment pass. If your company finds this graduate suitable for a position and makes an Employment Pass application to the Ministry of Manpower (MOM), the necessary work pass arrangements will be facilitated after receiving your submitted application. This is subject to the qualifying notes overleaf (as attached), which includes complying with the Fair Consideration Framework.

3 This letter is supported by the Ministry of Manpower and is valid for 12 months from the date of graduation or date of issue, whichever is later.

4 You may email Daniel Cheong, the Career Coach, at daniel_cheong@sutd.edu.sg for clarification. Thank you.

Yours sincerely,



Angelvin C. Parma
Head, SUTD Career Development Centre

Qualifying notes:

- 1 The applicant named overleaf is eligible to apply for an Employment Pass if he/she:
 - (a) secures full-time employment in a company of good standing in Singapore;
 - (b) is to be engaged in managerial, executive or specialised job;
 - (c) submits an application for Employment Pass together with certified copies of educational certificates;
 - (d) is not on Government agencies' adverse record.

- 2 Professionals such as doctors, lawyers, architects, dentists, pharmacists etc. have to register with the relevant professional regulatory body before they are allowed to practise their profession in Singapore. Those who intend to practise their profession would have to seek registration before the Employment Pass is issued.

- 3 This letter does not exempt employers from the Fair Consideration Framework. This includes the requirement to advertise the job vacancies on the National Jobs Bank before submitting an Employment Pass application. Employers should consider all applicants fairly, regardless of nationality.