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EXECUTIVE SUMMARY

Goal-oriented computer engineering student with a fervent passion for software development and a strong foundation in programming languages like Python and Java, specializing in software and computer application development. Proven problem-solving skills demonstrated through hackathons and development projects. Actively seeking internship opportunities to contribute to innovative tech projects.

TECHNICAL COMPETENCIES

FRONTEND	BACKEND	AI & ML SOFTWARE	DATABASE TOOLS	DEV TOOLS	HARDWARE
HTML	C++	TensorFlow	MYSQL	Figma	Arduino
Pure CSS	Java	Keras	SQL	Git	PIC18 Microcontroller
JavaScript	Python	Scikit-Learn	Firebase	GitHub	Raspberry PI
	PHP			Docker	Assembly 86
				Kubernetes	
				AWS	

EXPERIENCE

Development Lead   **Singapore Polytechnic**   *Singapore*   04/2023 – 12/2023

1. LifeFit Web and Mobile App Development Lead:

   - Developed interactive prototypes for both web and mobile applications using Figma.
   - Led the development of Life Fit Mobile using Java, Android Studio, OpenAI API, Firebase and Web Application using JSON, HTML, CSS, JavaScript, PHP, MySQL.
   - Managed development tasks effectively by assigning responsibilities, setting priorities, and overseeing the progress of the development process using Git and GitHub.

Co-Chair Referee   **RoboCup Singapore**   *Singapore*   03/2024 - 04/2024

2. Co-Chair Auto-Driving Referee (U19 and U12):

   - Conducted pre-event briefings to ensure understanding of rules and post-event evaluations to improve future events.
   - Collaborated with 5 other referees to ensure seamless coordination for the competition.
   - Established effective communication channels for over 50 global participants and mentors, fostering swift issue resolution and streamlined event coordination.

EDUCATIONAL QUALIFICATIONS

Diploma in Computer Engineering   **Singapore Polytechnic**   *Singapore*   04/2022 - PRESENT

Specialised in software and computer applications   *CGPA: 3.85/4.00*

NOTABLE COMPETITIONS

OPPO COLOROSHACK 2023 ● **TOP 10TH FINALIST** ● **LIFEFIT MOBILE APP (VIEW PROJECT)**
- Developed healthcare mobile application that integrates smart technology and community-based caregiving which offers user-friendly and modern care management platform to facilitate assorted services tailored to the user needs.
- Invited to showcase the app to global OPPO stakeholders at the final pitch event in Kuala Lumpur.

NATIONAL ROBOTICS COMPETITION 2023 ● **1ST PLACE** ● **AUTONOMOUS DRIVING**
- Developed a program aimed at optimizing the delivery timing of autonomous vehicles for package delivery which utilized algorithms to calculate the fastest routes and timings for vehicles to efficiently deliver packages.

PROJECTS

LIFEFIT MOBILE APPLICATION ● VIEW GITHUB   APRIL 2023 - DECEMBER 2023
- Implemented various features including Fingerprint Authentication, Firebase Login, AI Chat, Geocode Integration, Chat Feature, Google Maps Integration.
- Served as a modern care management platform, facilitating customized services such as home therapy, nursing, personal care, and doctor visits, prioritizing security, and efficiency for easy access to care services.

SMART FIRE ALARM SYSTEM ● VIEW GITHUB   JANUARY 2024 – FEBRUARY 2024
- Developed the Smart Fire Alarm System utilizing Raspberry Pi, LED, Servo Motor, LCD, Keypad, Temperature and Humidity Sensor, Infrared Sensor (as smoke sensor), Telegram API, ThingSpeak API, YOLO Object Detection Algorithm, Computer Vision, and Firebase Database.
- Integrated a website for remote monitoring and management, employing DevOps practices such as continuous integration, deployment automation, and monitoring for efficient development, deployment, and maintenance.

DATA ANALYSIS OF HDB FLATS IN SINGAPORE ● VIEW GITHUB   JANUARY 2024 – FEBRUARY 2024
- Utilised data analysis libraries like Pandas, Matplotlib, Seaborn, and NumPy to assess cost, location, and flat type considerations.
- Analyse property prices, rental rates, amenities, and transportation options in various neighbourhoods to make an informed decision on whether to buy or rent and identify the most suitable location and flat type for my long-term stay.

CO-CURRICULAR ACTIVITIES

HONORARY SECRETARY OF SP INFOCOMM CLUB   APRIL 2024 – PRESENT
- Managed and oversee administrative tasks such as drafting and broadcasting email to club member.
- Assisted in planning and executing events, workshops, and activities related to SP Infocomm club.

ELECTRICAL & ELECTRONIC ENGINEERING STUDENT AMBASSADOR   APRIL 2023 – PRESENT
- Facilitated sessions at World Skills ASEAN 2023.
- Served as a class facilitator for the EEE Freshman Orientation Program in 2023 & 2024.
- Served as an emcee for the EEE Parents Communication Session in 2024 for diploma in computer engineering.

ELECTRICAL & ELECTRONIC ENGINEERING CLUB GAMEFEST SUBCOMMITTEE   APRIL 2023 – APRIL 2024
- Led the coordination of Sports Fiesta 2023 as the organizing chairman.
- Took charge as the Game Master for Island Escapee Interactive Camp 2023.