PRAN TANPRASERTKUL

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EDUCATION

National University of Singapore   **Jul 2024 - Jul 2028**
Bachelor of Engineering
- Major in Computer Engineering
- Attending NUS College (NUS' Honors College)

EXPERIENCE

National University of Singapore, Makers' Lab Assistant   **Aug 2025 - Present**
- Collaborated on robotics arm demonstration (Ufactory's XArm) using 3D Printing and Python for fine-tuned movements
- Integrated software for a custom Locker Self-Collection System for student requested 3D prints and fabrications

Freelance, Software Developer   **Apr 2025 - Present**
- Solo-developed a mobile and web application for mental health using Typescript, React Native and Expo for a NUS Associate Professor

Lotus's Thailand, Software Engineering Intern   **Mar 2024 - Jun 2024**
- Collaborated with a team of three to develop a AI-powered chatbot for frequently asked questions using large language models, implementing locally hosted Retrieval Augmented Generation (RAG) and Keyword Search
- Tested multiple AI models with over 100 varying questions and 5 models, improving response time of frequency asked questions

Electronic Transactions Development Agency, Thailand,   **Jan 2024 - Mar 2024**
Software Engineering Intern
- Evaluated more than 10 large language models and machine learning models on 5 metrics: explainability, safety, repeatability, objectivity and robustness using AIVerify

AWARDS AND SCHOLARSHIP

- Won 'Most Sustainable Solution' in NUS' annual makeathon IDEATE, 2024
- Received the ASEAN Scholarship from NUS, 2024
- Won Silver Medal in Singapore National Olympiad in Informatics, 2023
- Won 2nd Place in Lockheed Martin's Code Quest (Singapore Division), 2022
- Won Silver Medal in Singapore National Olympiad in Informatics, 2021
- Won 4th Place in Singapore Robocup CoSpace Challenge, 2019

LEADERSHIP EXPERIENCE

Impact Festival, Executive Committee Member   **Mar 2025 - Present**
- Planned and executed festival events, specifically regarding logistics, hospitality and general event organisation

NUSC Muay Thai Interest Group, Committee Head   **Feb 2025 - Present**

- Founded and established the Muay Thai Interest Group, with growing membership of 70+ people
- Sourced qualified coaches and procured essential equipment

NUS Fintech Society, Marketing Executive   **Oct 2024 - Present**
- Developed new website design and managed social media marketing efforts

Robotics Club Executive Committee (EXCO), Programming Head   **Jun 2020 - Aug 2021**
- Collaborated alongside a team of 10 EXCOs members to organize intra-club competitions

LANGUAGES

- English (Native), Thai (Native)
- Technical: Python, C++, Javascript