Dion Yi CHIA

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Education

Nanyang Technological University, Singapore   *Aug 2023 – Dec 2027*
Bachelor of Engineering Science and Master of Science (Technology Management), Expected Honours (Distinction)
- Renaissance Engineering Programme (Premier Engineering Scholars' Programme in NTU), specialisation in Computer Engineering
- Renaissance Engineering Programme Scholarship (REPS) recipient

Anderson Serangoon Junior College, Singapore   *Jan 2019 – Dec 2020*
Singapore-Cambridge General Certificate of Education Advanced Level | 90/90 Rank Points
- Academic Award for 6 Distinctions in the 2020 GCE A-Level Examinations
- Outstanding Contribution Award (2019 – 2020)

Work Experience

DSO National Laboratories, Singapore   *May 2025 – Aug 2025*
Algorithm Engineer Intern
- Implemented clustering algorithms with context-aware enhancements in an offline Linux environment.
- Parallelized and optimized algorithm to be used with GPUs, achieving significant speedup over baseline implementation.

Land Transport Authority, Singapore   *Jun 2024 – Jul 2024*
Artificial Intelligence Intern, Data Science Department
- Researched on 4 branches of deep learning namely, Computer Vision, Natural Language Processing, Generative AI and Reinforcement Learning.
- Created documentation to distil technical concepts for clarity and understandability for a diverse audience.

Cosmose, Singapore   *Feb 2023 – Apr 2023*
Business Development Intern, KaiKai
- Developed tools to automate processes such as prospecting and mailing for CRM processes using JavaScript, resulting in substantial enhancement of team productivity.
- Covered end-to-end sales cycle of B2B products in a fast-growing tech-start-up focused on gamified shopping experiences. Surpassed targets set and acquired more than 50 leads through sales pitches.

Extracurriculars

REACH, Nanyang Technological University   *Jan 2024 – Present*
President
- Led a team of 30 in engineering innovative solutions targeted at the disadvantaged and differently abled, including projects in various fields such as MedTech.

Outdoor Activities Club, Anderson Serangoon Junior College   *Jan 2019 – Dec 2020*
Vice-President
- Led a team of 30 in coordinating various activities to promote outdoor survival skills and physical fitness. Spearheaded a service-learning trip to Vietnam to bolster facilities at a local primary school.

Projects

Finder – An adaptive retrieval-augmented generation tool built using LangChain, Ollama and Milvus.

Visual-Field Testing Booth – A system utilising computer vision and a pan-tilt servo mechanism used to enhance traditional VF analysis. *Awarded a $15,000 (SGD) grant by Tan Tock Seng Hospital for further development.*

Smart Bakery for the Intellectually Disabled – An integrated IoT system with accessible interfaces, designed to promote inclusivity and efficiency in the bakery environment. *(Ongoing)*

Skills & Interests

Skills:	Problem Solving, Python, C, Java, React, HTML5, CSS, JavaScript, Git, and Verilog
Languages:	English (Native), Chinese (Native)
Interests:	Taekwondo (Varsity), Basketball, Outdoor Exploration, Electric Bass