

JEROMY TAN YOU REN

+65-8722-2346 | jeromytan@u.nus.edu | [linkedin.com/in/jeromytan](https://www.linkedin.com/in/jeromytan) | github.com/jxromy | jxromy.github.io

PROFILE BACKGROUND

Computer engineering undergraduate **experienced in robotics, automation and software development**. Skilled in developing applications, with a proven ability to **collaborate in teams, manage projects and drive technical solutions**. Passionate about **optimizing processes through AI-driven solutions**, and seeking an opportunity to leverage his technical expertise in a fast-paced, high-impact environment while developing leadership skills and business acumen.

EDUCATION

National University of Singapore (NUS) | Bachelor of Engineering (Honors)

Aug 2023 - Present

- Major in Computer Engineering

Expected Graduation Jul 2027

PROJECTS

Project Dysarthria

Jun 2025 – Present

- Created a conversational assistant for speech-impaired people and their caregivers to communicate with ease
- Fine-tuned the OpenAI Whisper model for real-time transcription of speakers with either cerebral palsy (CP) or amyotrophic lateral sclerosis (ALS), improving accuracy of base model on transcription of target audio by over 60%

Volvo Cars Tech Hub Singapore Hackathon

Jan 2025 – Feb 2025

- Integrated ROS Noetic with PyTorch on a ROBOTIS TurtleBot 3, allowing it to recognize and react to discretionary and prohibitory road signs. Developed a fully driverless system on a road map with buildings, pedestrians and signages in a sandbox environment at Volvo Cars Tech Hub Singapore

NUS Fintech Society Software Development Team

Aug 2024 – Jan 2025

- Developed high-fidelity prototypes of an e-commerce website on Figma alongside a team of four other student developers. Applied Agile methodology and utilized Notion for sprint tracking and iterative improvements

WORK EXPERIENCE

Duke-NUS Medical School

JAN 2025 – PRESENT

Student Assistant

- Spearheaded the design and development of a course website for a MedTech innovation program using Figma and Sitefinity, with the aim to humanise the program by featuring past program participants and their accomplishments

Qarbotech

May 2024 - Aug 2024

Research and Operations Intern

- Collaborated with multi-disciplinary team to launch a company website using Hostinger and provided inputs on the design of a product feature animation, improving customer understanding of nanotechnology significantly
- Developed and maintained a responsive dashboard in Microsoft Excel that visualizes product performance data across more than 130 projects spanning 4 countries, enabling data-driven decisions in a highly niche environment

NCS Singapore

May 2023 – Aug 2023

Project Intern

- Reviewed and tested payroll software used by 10,000+ government employees before deployment, ensuring high quality and performance
- Deployed critical software patches for more than 6 different government agencies within a tight 2-month timeline, ensuring seamless system functionality
- Collaborated with the project manager to accelerate key deliverables using SAP Cloud Analytics, reducing project turnaround time by 18% within a month and significantly decreased the time taken for resolution of incidents

SKILLS

- Technical: C, C++, ROS, Verilog, Java, Python, PyTorch, HTML, CSS, JavaScript, ReactJS, NodeJS, MongoDB
- Non-Technical: Wireframing, UI/UX Design, Video Editing, Documentation Writing
- Languages: English, Mandarin, Bahasa Indonesia (Basic), Spanish (Basic)
- Interests: Fitness, Automotives, Productivity, Biohacking, Robotics



201801029201 (1291227-W)
No.22, Jalan TPP 18, Taman Perindustrian Putra,
47130, Puchong Selangor

To Whom It May Concern,

We are writing to enthusiastically recommend Jeromy Tan. Jeromy interned with us at Qarbotech as an Operations and Research Intern, and he truly stood out—arguably the best intern we've ever had.

Qarbotech is an agritech startup based in Malaysia that uses nanotechnology to enhance photosynthesis, helping farmers grow more food sustainably. Coming from a background that is quite different from agritech, Jeromy quickly adapted and excelled, stepping out of his comfort zone to contribute meaningfully to our mission.

His "can-do" spirit, adaptability, and ability to manage the wide-ranging responsibilities typical of a startup made him an invaluable asset to our team. Jeromy significantly contributed across multiple areas, far beyond his core responsibilities. At a time when sales of our B2C product were picking up, he helped build operational structures, ensuring that our products were efficiently packed, stocked, and delivered on time. His work in the research domain was equally impressive, where he contributed to experiments measuring the photoluminescence of our products at varying concentrations.

Jeromy also played a key role in marketing efforts. He was instrumental in getting our new website up, creating an introduction video, as well as designing brochures and Instagram posts that greatly enhanced our advertising. Additionally, he tackled the complex task of integrating farm trial data from various crops into one platform, designing a user-friendly interface that is easy to digest.

Beyond his technical contributions, Jeromy demonstrated his willingness to engage directly with stakeholders. He took the initiative to visit farmers with the team, gaining valuable field insights into the trials of our QarboGrow product. His flexibility, calm demeanor, and ability to perform under pressure consistently impressed us, and he worked harmoniously with the entire team. His kindness and helpfulness were qualities that left a positive impact on everyone he interacted with.

We wholeheartedly recommend Jeromy Tan. Any company would be fortunate to have him, and we are confident that his contributions and strong character will make him an invaluable addition to any team.

Warm regards,

Amirul Merican
Co-founder & COO, Qarbotech

Afif Nadhrah
Operations Manager / Supervisor, Qarbotech

Chor Chee Hoe
Co-founder & CEO, Qarbotech

National University of Singapore

Unofficial Transcript

NAME: TAN YOU REN JEROMY

STUDENT NO.: A0283135H

DATE OF BIRTH: 25/08/2002

DATE ISSUED:

26/02/2025

PROGRAMME: BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)
PROGRAMME STATUS: ACTIVE IN PROGRAMME

COURSE ETP3205 INNOVATION & ENTERPRISE INTERNSHIP **GRADE** IP **UNITS** 6.00
BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)
GRADE POINT AVERAGE: 4.69

COURSE **GRADE** **UNITS**

ACADEMIC YEAR 2023/2024 SEMESTER 1

CFG1002	CAREER CATALYST	CS	2.00
CFG1003	FINANCIAL WELLBEING-INTRODUCTION	CS	-
CG1111A	ENGINEERING PRINCIPLES AND PRACTICE I	S	4.00
CS1010	PROGRAMMING METHODOLOGY	S	4.00
EG1311	DESIGN AND MAKE	A-	4.00
MA1511	ENGINEERING CALCULUS	A+	2.00
MA1512	DIFFERENTIAL EQUATIONS FOR ENGINEERING	S	2.00
PC1201	FUNDAMENTALS OF PHYSICS	A	4.00

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)
GRADE POINT AVERAGE: 4.80

ACADEMIC YEAR 2023/2024 SEMESTER 2

CFG1004	FINANCIAL WELLBEING - ART AND SCIENCE OF INVESTING	CS	2.00
CG2111A	ENGINEERING PRINCIPLES AND PRACTICE II	B+	4.00
DTK1204	DESIGN THINKING	S	4.00
ES2631	CRITIQUE AND COMMUNICATION OF THINKING AND DESIGN	S	4.00
GEA1000	QUANTITATIVE REASONING WITH DATA	A-	4.00
MA1508E	LINEAR ALGEBRA FOR ENGINEERING	A	4.00
PF1101	FUNDAMENTALS OF PROJECT MANAGEMENT	A	4.00

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)
GRADE POINT AVERAGE: 4.89

ACADEMIC YEAR 2023/2024 SPECIAL TERM(PART 1)

PARTICIPATED IN THE NUS OVERSEAS COLLEGES PROGRAMME, NOC MALAYSIA

ACADEMIC YEAR 2023/2024 SPECIAL TERM(PART 2)

PARTICIPATED IN THE NUS OVERSEAS COLLEGES PROGRAMME, NOC MALAYSIA

ETP3205 INNOVATION & ENTERPRISE INTERNSHIP **CS** **6.00**

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)
GRADE POINT AVERAGE: 4.68

ACADEMIC YEAR 2024/2025 SEMESTER 1

CDE2501	LIVEABLE CITIES	W	4.00
CS1231	DISCRETE STRUCTURES	B+	4.00
CS2040C	DATA STRUCTURES AND ALGORITHMS	B+	4.00
GE1015	PUBLIC HEALTH IN ACTION	A	4.00
GEES1025	SINGAPORE: IMAGINING THE NEXT 50 YEARS	CS	4.00
IE2141	SYSTEMS THINKING AND DYNAMICS	A-	4.00

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)
GRADE POINT AVERAGE: 4.57

*****END OF TRANSCRIPT*****