

Nicholas Giancarlo Canete

HP: (+65) 98245987 Email: nicholasgcc@gmail.com

EDUCATION

National University of Singapore (NUS)

Aug 2019 – PRESENT

Bachelor of Computing in Computer Science

Tembusu College (National University of Singapore)

Aug 2019 - May 2021

University Town College Programme

Victoria Junior College

Jan 2017 – Dec 2018

GCE 'A' Levels

Victoria School

Jan 2013 – Dec 2016

Victoria-Cedar Alliance Integrated Programme

TECHNICAL SKILLS

- Programming Languages: Java, Javascript, C and C#, Assembly
- Software: Unity 3D, Vuforia Augmented Reality SDK, Git and GitHub, IntelliJ
- Mathematics: Discrete Structure, Calculus for Computing, Linear Algebra

WORK EXPERIENCE

Intern, Anchorage Consulting Private Limited

Feb 2019 – May 2019

- Handled day-to-day operations in the office and performed data verification and entry
- Visited clients and helped with administrative tasks related to accounting and auditing
- Created and handled invoice/receipt databases using Xero and Microsoft Excel

Admin, The Strength Yard

Nov 2016 – Dec 2016

- Handled day-to-day gym operations as well as administrative tasks such as membership registration, bank payments and inventory

Side Projects and Publications

Project - Augmented Reality Chemistry App

- Project conducted in fulfillment of the NUS CP2106 Independent Software Project module at Apollo (Advanced) Level
- Developed an Android app using Augmented Reality to make learning Chemistry at the GCE 'A' Levels more intuitive and interactive
- Explanation of technical concepts:
<https://docs.google.com/document/d/14pPjgsbSOxiqKAuGNLWPKP2D4hK4caRUNchCT-7txVw/edit?usp=sharing>
- Product video:
https://drive.google.com/file/d/1JdX_Cmg5005pKOBcchWm_NbsryxsIJUy/view?usp=sharing

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- Android APK:
<https://www.dropbox.com/s/qih62693gp63rai/ARbital.apk?dl=0>

Publication - Development of Hybrid Mobile Application (AR based techniques in enhancing e-commerce and social engagement)

- Conducted and published research on the use of Augmented Reality to streamline e-commerce and promote social engagement for the *Nanyang Research Programme* supervised by NTU professors and postgraduate mentors
- Used Augmented Reality to demonstrate its uses in Photobooths and Fitting Rooms for online shopping and e-commerce
- Won the Nanyang Research Programme Gold Award
- Publication link:
https://www.researchgate.net/publication/338829733_Development_of_Hybrid_Mobile_Application_AR_based_techniques_in_enhancing_e-commerce_and_social_engagement

Publication – Mixed Integer Nonlinear Programming Via Simulated Annealing

- Published research on Mixed Integer Nonlinear Programming via Simulated Annealing for Science Mentorship Programme in collaboration with Singapore Polytechnic professors
- Explored the use of VBA as an optimization method using the generalized reduced gradient method
- Publication link:
https://www.researchgate.net/publication/338829505_Mixed_Integer_Nonlinear_Programming_Via_Simulated_Annealing

Project – Android Mobile App to connect Voluntary Welfare Organisations with volunteers

- Hassle-free volunteering mobile app that connected prospective volunteers with Voluntary Welfare Organisations based on their beneficiary group of interest
- Presented at the Singapore Infocomm Technology (SiTF) Awards in 2016 for the Best Innovative Student Project category

Project – Arduino-Based Simple Weather Station

- Developed an Arduino-based weather station that detected changes in temperature, pressure and humidity as a part of the Victoria School Talent Development Programme and presented at a conference

CO-CURRICULAR ACTIVITIES

Tembusu College House Committee – Programmes Head

Aug 2019 – PRESENT

- Organised events and initiatives to promote bonding and house culture
- Helped organize events that hit a record high in House history for revenue generation

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Powerlifting NUS

Aug 2019 - PRESENT

Tembusu College Zone Committee

Aug 2020 – Sep 2020

- Coordinated and organized initiatives and welfare to promote zone bonding

School of Computing Orientation Group Leader

Jun 2020 – Jul 2020

Migrant Labour Rights for PGP CRF – Volunteer (Curriculum Team)

May 2020 – Jul 2020

- Helped research and curate resources (videos, quizzes and infographics) for Migrant Workers recovering from COVID-19 in Prince George Park's (PGP) Residence to educate them on how to return to work safely during the COVID-19 pandemic
- Curated resources on existing worker regulations and rights to empower them in their return to their workforce

CITI-YMCA Youth for Causes – Team Leader

Apr 2017 – Sep 2017

- Raised a total of over \$3000 for Children's Cancer Foundation from a student-led team of four people
- Organised ground-up initiatives, such as Street Sales, a Powerlifting Competition and Charity Concert and mobilised over 70 volunteers

ADDITIONAL INFORMATION

- **Languages:** Proficient in English, conversational Filipino (Tagalog)