Ryan Ng

Mobile: +65 9154 5730 | Email: nghanyitryan@gmail.com | ryan_nghanyit@mymail.sutd.edu.sg |
| LinkedIn: www.linkedin.com/in/ng-han-yit-ryan | Portfolio: tinyurl.com/NgHanYitRyanPortfolio |
| GitHub: https://github.com/DarthPenguinz |

PERSONAL PROFILE

Hi! I am Ryan, a second-year student at the Singapore University of Technology and Design (SUTD) pursuing Computer Science and Design. I am an individual passionate about computing and robotics, aiming to solve problems through innovation and design. Currently seeking internship opportunities, I hope to positively impact society through human-centric solutions.

EDUCATION

School of Science and Technology, Singapore (SST)	**Singapore**
• GCSE 'O' Levels, 6 Distinctions, L1R5 of 6	**Jan 2013 to Nov 2016**
Nanyang Junior College (NYJC)	**Singapore**
• GCSE 'A' Levels, 5 Distinctions, Rank Points of 88.75/90	**Jan 2017 to Dec 2018**
Singapore University of Technology and Design (SUTD)	**Singapore**
• Bachelor of Engineering (Computer Science and Design)	**Aug 2021 to May 2025**
• Specializing in IoT and Intelligent Systems	
• Minor in Engineering Product	
• GPA 4.7/5.0, SUTD Global Distinguished Scholarship Holder	
Technische Universität Berlin (TU Berlin)	**Berlin, Germany**
• Global Leadership Programme	**Jul 2022 to Aug 2022**
• Participated in Leadership, Innovation & Entrepreneurship Module	
• Awarded first place in Start-Up Crash Course Module	

SKILLS

- Programming (Java, Python, HTML, JavaScript, C++)
- Data Visualization (Seaborn, Excel, GeoPandas)
- Microsoft (Word, Excel, PowerPoint)
- Android App Development (Android Studio)
- Google Firebase (C++, Java)
- CAD (Sketchup, Rhino, Shapr3D, Blender)
- 3D Printing (FDM)
- User Acceptance Testing
- Entrepreneurship
- Leadership and Teamwork
- Effective Communication
- Problem-Solving

WORK EXPERIENCES

Korea Trade-Investment Promotion Agency (KOTRA)	**Singapore**
Temp Telemarketer	**Nov 2020**
• Telemarketing for K-Service Digital 2020 Event	
• Assist with Excel Database porting	
Lee Kuan Yew Centre for Innovative Citites (LKY-CIC)	**Singapore**
Research Intern	**Feb 2021**
• Surveyed and collected data for research on Aging and Mobility in Singapore.	
• Data preprocessing with NumPy and Matplotlib	
• Projected walking paths using Python and Geopandas	
• Analyzed data to understand behavioral patterns	

WORK EXPERIENCES

DBS Bank Limited (DBS)   **Singapore**
Research Intern   **May 2021 – Nov 2021**

- Device test cases from given UI/UX requirements
- Conducted test cases to ensure the functionality
- Identification of bugs and timely reporting of them
- Manage Testing Environments for SIT and UAT stages
- Collaborate with programmers and team members

PROJECTS

Undergraduate Research Opportunities Programme (UROP - SUTD)
- Started a UROP in SUTD to develop modular shoes with the goal of improving recyclability
- Developed a functioning prototype where the sole can be removed and the shoe is fit for sports.

Design Thinking & Innovation (SUTD)
- Developed modular stools which could be used in large-scale Tic-Tac-Toe games.
- The stools could be transformed into benches and benches to accommodate different groups of people.
- Led the designing, 3D Modelling, and Prototype Construction stages.

FPGA Arcade Game (SUTD)
- Created a rhythm game similar to guitar hero using FPGA as a group.
- Helped with Datapath design and vetting of Lucid Code.
- Led construction of physical game along with the wiring.

Android Application (SUTD)
- Worked as a team to create an application to help Hawkers with inventory management, training, and handling orders.
- Used Google Firebase as the database to store our data together with recycler views for dynamic updating of the application.
- Developed the Ingredients management aspect through the use of Object-Oriented Programming Concepts.
- Helped team-members with their respective sections for debugging and solving problems faced.

Google AppSheet Expenditure Tracking Application (Personal)
- Created a functional Application to track my spending where data is saved into google sheets.
- Functions include: Viewing Total Monthly Expenditures, To-Date Yearly Expenditures, types of expenditures, and Adding new expenditures.

CO-CURRICULAR ACTIVITIES

Robotics Club (SST)
- Vice President
- 1st Placing and Design Award in Singapore Vex Robotics Competition
- 2nd Placing in Singapore Vex Robotics Competition
- EAGLES Award (Leadership)

Judo Club (NYJC)
- Captain
- SSSC Colours Award
- EAGLES Award (Leadership)
- OBS Leadership and Service Award
- 21-Day OBS Classic Challenge Course
- Organized Family Bonding Day in Collaboration with Youth Corps for Rainbow Centre - Margaret Drive School for students

Judo Club (SUTD)
- President/ Trainer
- Silver in Judo Inter Tertiary Competition (-73 M)