# Ryan Ng

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## 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**                                                                               **Dec 14 to Jan 15**
- Telemarketing for K-Service Digital 2020 Event
- Assist with Excel Database porting

**Lee Kuan Yew Centre for Innovative Cities (LKY-CIC)**                                              **Singapore**
**Research Intern**                                                                                 **May 14 to Sep 14**
- 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 14 to Sep 14**
- 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)