

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) <ul style="list-style-type: none">GCSE 'O' Levels, 6 Distinctions, L1R5 of 6	Singapore Jan 2013 to Nov 2016
Nanyang Junior College (NYJC) <ul style="list-style-type: none">GCSE 'A' Levels, 5 Distinctions, Rank Points of 88.75/90	Singapore Jan 2017 to Dec 2018
Singapore University of Technology and Design (SUTD) <ul style="list-style-type: none">Bachelor of Engineering (Computer Science and Design)Specializing in IoT and Intelligent SystemsMinor in Engineering ProductGPA 4.7/5.0, SUTD Global Distinguished Scholarship Holder	Singapore Aug 2021 to May 2025
Technische Universität Berlin (TU Berlin) <ul style="list-style-type: none">Global Leadership ProgrammeParticipated in Leadership, Innovation & Entrepreneurship ModuleAwarded first place in Start-Up Crash Course Module	Berlin, Germany Jul 2022 to Aug 2022

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) Temp Telemarketer <ul style="list-style-type: none">Telemarketing for K-Service Digital 2020 EventAssist with Excel Database porting	Singapore Nov 2022
Lee Kuan Yew Centre for Innovative Cities (LKY-CIC) Research Intern <ul style="list-style-type: none">Surveyed and collected data for research on Aging and Mobility in Singapore.Data preprocessing with NumPy and MatplotlibProjected walking paths using Python and GeopandasAnalyzed data to understand behavioral patterns	Singapore Feb 2021

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)

