SIM YU HUI, KELLIE

BLOCK 165 GANGSA ROAD | #25-76 | SINGAPORE 670165 | **TEL**: 98481161

EMAIL: KELLIE.SIM.0101@GMAIL.COM | **LINKEDIN**: HTTPS://WWW.LINKEDIN.COM/IN/KELLIE-SIM-1255AA51/

SUMMARY

Self-motivated and conscientious learner. Good team player with strong verbal and written communication skills, as well as excellent listening and interpreting abilities. Excellent interpersonal skills with demonstrable ability to solve problems and remain results focused in a fast changing environment. Possess experience in MS Office. Currently pursuing 4 online courses related to data science with Python and Excel. Did a project involving depression detection using speech analysis.

SKILLS

Technical: Milling, Turning, Sheet Metal Work, Electrical & Electronic Measurement and Test Instrumentation, Breadboard Fabrication and Testing, Microcontroller Programming and Interfacing, Printed Circuit Board Fabrication, Wiring, Assembly and Testing

Software: MS Office, AutoCAD, Tina10, Adobe Photoshop, iMovie, Android Studio

Programming: C, C#, C++ , Java (intermediate), Python, HTML, Arduino, JavaScript, CSS (basic)

Languages: English (native), Chinese (fluent), Hokkien (basic)

Others: Swimming (up till SwimSafer Bronze), First Aid Certified

EDUCATION

Apr 2017 - May 2020	**Ngee Ann Polytechnic** Diploma in Engineering Science • Cumulative GPA: 3.94 • 4 Module Prizes, 12 Distinctions, 1 Pass with Merit, 3 Additional Certificates
Jan 2013 - Dec 2016	**School of Science and Technology, Singapore** Singapore-Cambridge GCE 'O' Level Certificate • L1R5: 8 points (raw), 6 points (net) • ELR2B2: 6 points (raw), 4 points (net)

WORK EXPERIENCE

May 2019 - Oct 2019	**A*STAR – Institute for Infocomm Research (I2R)** Research Attachment, Deep Learning in Healthcare • Developed a web application to enable evaluations of novel language technologies for improving workflow efficiencies in a hospital telehealth setting
Dec 2017	**Pacific Bookstores Pte Ltd** Assistant Bookkeeper • Handled customer service and books inventory

CO-CURRICULAR ACTIVITIES AND COMMUNITY SERVICE

Ngee Ann Polytechnic (NP)

Jan 2019 - Jan 2020	FoodAID Club (Student Advisor) • Advised and guided new main committee
Apr 2018 - Apr 2019	Engineering Science Academic Club (President) • Led the club in organising events for ES students and also events in collaboration with SOE Society • Created and implemented club mission and vision
Jan 2018 - Jan 2019	FoodAID Club (Events Coordinator) • Worked with charity organisations to organise events for all NP students • Coordinated volunteers during events
Jun 2017 - Jan 2018	FoodAID Club (Subcommittee Member) • Organised a sushi making workshop with Jamiyah Children's Home and ice-cream making workshop
May 2017 - Apr 2018	Engineering Science Society (Subcommittee Member) • Planned and executed events such as Movie Night and Bowling Day for ES students • Took detailed minutes for meetings
May 2017 - May 2018	Ngee Ann Poly - Institute of Engineers Chapter (Secretary) • Took detailed minutes for meetings • Organised a bonding day cum recruitment event
Aug 2017 - Feb 2020	The Christieara Programme • Took part in a Youth Expedition Project - Aided villagers at Pakia Village, Chiangmai in building 8 water tanks and taught villagers basic English • Represented NP to attend lectures
Jan 2013 - Dec 2016	**School of Science and Technology, Singapore (SST)** Robotics@ APEX (Member) • Won champion for Bull's Eye Competition and best presentation for FIRST Lego League

KEY PROJECTS

Jun 2019 — **STEP STEM ALIVE 2019**
- Developed a mock-up of a house with Micro:bit, sensors, LEDs, cardboard to solve a problem modelled after the United Nations' Sustainable Development Goals
- Aimed to solve Philippines' urban slums problem and introducing renewable energy and recycling and reducing waste habits

Mar 2019 — **SUTD Compact 3.007 2019**
- Developed a high-fidelity and low-fidelity prototype of an expressive cleaning robot using Arduino, Raspberry Pi and other components
- Low-fidelity prototype design was submitted to A' Design Award and scored 85/100 for presentation and 5/10 for design

Oct 2018 - Aug 2019 — **Depression Detection using Speech Analysis (Mobile App)**
- Developed an Android application for depression detection with real-time audio visualisation and machine learning
- Developed and optimised a Convolutional Neural Network model used for detecting depression

Oct 2018 — **International Seminar on Technology for Sustainability (ISTS)**
- Developed a mock-up application with a chatbot, 360° video, customised tour programs and e-tickets to improve user experience for Lomprayah

Apr 2018 — **Development of Arduino system that aids patients with anxiety**
- Used LEDs to aid breathing movements for patients with anxiety, modelled after the 4-7-8 breathing technique

Oct 2017 — **Mockup of Android Application to aid visually impaired**
- Done using MIT App Inventor to aid calling contacts, reading out date and time, capturing audio and media

OUTREACH

Sep 2019 — **Social Leadership Challenge 2019 - Taiwan**
- Developed capabilities as social leaders and active social contributors to the community at large
- Study visit hosted by reputable universities and social organisations

Jun 2019 — **STEP STEM ALIVE 2019 - Singapore**
- Interacted with other ASEAN youths while building STEM skills

Oct 2018 — **International Seminar on Technology for Sustainability 2018 - Bangkok**
- Interacted with other Asian youths while working on a problem statement given by companies

Sep 2018 — **7DRAGON China Immersion Trip 2018 - Chongqing**
- Visited businesses such as Tencent and ZhuBaJie
- Study visit hosted by Chongqing Technology and Business University

Mar 2018 — **The Christieara Programme Youth Expedition Project - Chiang Mai**
- Interacted with SatitCMU students while aiding villagers in Pakia Village

May 2015 — **Global Citizenship Programme - Beijing**
- 5-day exchange programme with Rendafuzhong Xishan School

Oct 2013 — **Global Citizenship Programme - Ho Chi Minh City**
- 5-day exchange programme with Lawrence S. Ting Memorial School

CERTIFICATES AND AWARDS

Ngee Ann Polytechnic

May 2019	School of Engineering Outstanding Student Award
May 2019	Module Prize (Level 2.2 - Engineering Design)
Dec 2018	Certificate in China Readiness
Oct 2018	International Seminar on Technology for Sustainability (ISTS) 2018 (Lomprayah Award)
Oct 2018	A*STAR Science Award (Poly) AY18/19
Oct 2018	Director's List (Level 1.2)
May 2018	Most Outstanding Performance (Level 1.2)
May 2018	Module Prize (Level 1.2 - Engineering Mathematics 3A, Fundamentals of Object-Oriented Programming)
Nov 2017	Module Prize (Level 1.1 - Innovation Toolkit)
Aug 2017	Ngee Ann Polytechnic Engineering Scholarship AY17/18

School of Science and Technology, Singapore

Mar 2017	Top GCE O-Level Performer for 2016
May 2016	Singapore Junior Chemistry Olympiad (Merit)
Mar 2015 - Nov 2014	Young Engineers Award (Silver, Bronze)
Feb 2015	FIRST Lego League 2014-2015 (Presentation - Champion)
Oct 2013	Bull's Eye Robotics Competition 2013 (Category B - Champion)

Other Achievements

Jul 2019	Python for Data Science and Machine Learning Bootcamp
Dec 2018	Python Level 1, Java Level 1
Dec 2018	Android Development: Concurrent Programming
Dec 2018	Leading with Emotional Intelligence (2013)
Dec 2018	Delegating Tasks to Your Team (2013)
Nov 2018	Calc001x: Pre-University Calculus by DelftX
Dec 2011 - Aug 2018	Edusave Awards (Academic Achievement 2018 and 2016, Good Progress

REFEREES

Dr Jaslyn Law
Deputy Course Chair, School of Engineering, Ngee Ann Polytechnic
535 Clementi Road Singapore 599489
Email: Jaslyn_LAW@np.edu.sg

Dr Pham the Hanh
Lecturer, School of Engineering, Ngee Ann Polytechnic
535 Clementi Road Singapore 599489
Email: PHAM_The_Hanh@np.edu.sg