

Christopher Goh

COMPUTER SCIENCE · MACHINE LEARNING

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Education

National University of Singapore

BACHELOR OF COMPUTING (HONOURS), COMPUTER SCIENCE

Singapore

Aug. 2019 - 2023

- Will commence undergraduate studies at School of Computing, NUS in August 2019.

River Valley High School

GCE A' LEVELS, INTEGRATED PROGRAMME

Singapore

2010 - 2016

- 2 H1 Subjects: General Paper, Project Work
- 4 H2 Subjects: Mathematics, Physics, Chemistry, Economics
- Total University Admission Score: 85/90

Experience

Singapore Army

PROJECT CLERK, LEADERSHIP BRANCH, HQ TRAINING & DOCTRINE COMMAND (CONSCRIPT)

Singapore

Mar. 2017 - Jan. 2019

- Awarded the 2018 Army Full-time National Serviceman of the Year Award, Commander TRADOC Coin, Commander ALTI Letter of Appreciation, Commanding Officer 1st Commando Battalion Coin, Platoon Best Recruit.
- Produced LEARNet Video Courseware used for training Junior Commanders to lead their men more effectively.
- Organised Ops Staff Admin Course, Battalion Command Course, and Brigade-Level Command Course.
- Organised formation anniversary event as Head of Logistics and Chairman in 2017 and 2018 respectively.
- Conceptualised the Leader Strong Campaign – an initiative to streamline leadership development efforts across the Army to be focused on bridging its leadership gaps.
- Featured in Army Workplan Video 2018, under the Soldier Strong theme.
- Attended the Presidential Garden Reception 2018 @ Istana.
- Motivational Speaker for new SAF recruits at BMTC School V.

DSO National Laboratories

PART-TIME RESEARCH STUDENT (ARTIFICIAL INTELLIGENCE)

Singapore

Jul. 2015 - Apr. 2016

- Developed a tool which made use of Natural Language Processing techniques to sift out key features of given input documents, fetch highly-related documents, and perform visualisation on accrued data for Counter-Terrorism Profiling & Disaster Monitoring, under the mentorship of Dr Terence Tan from DSO National Laboratories.
- Awarded a Bronze award at the Singapore Science & Engineering Fair 2016.
- Presented and published research paper "Context Aware Web-mining Engine" in the IRC-SET Conference 2016.
- Presented to Assistant Director, Department Head, Program Director, Lab Head at DSO National Laboratories, and at YDSP Congress 2016.

Nanyang Technological University

PART-TIME RESEARCH STUDENT (COGNITIVE SCIENCE / SOFTWARE ENGINEERING)

Singapore

May. 2015 - Apr. 2016

- Attached to School of Humanities and Social Sciences, Nanyang Technological University, mentored by Asst Prof Luca Onnis, under the Nanyang Research Programme.
- Created a front-end browser-based JavaScript game to measure human reaction times in cognitive tasks, backend NodeJS server to handle data collection, and analysed collected data with R.
- Received a Silver Award at the NRP Symposium 2016 for research paper "Creating Online Computer Games for Cognitive Training".

DSO National Laboratories

PART-TIME RESEARCH STUDENT (CRYPTOGRAPHY)

Singapore

Jul. 2014 - Apr. 2015

- Developed a tool which cryptanalysed the Crypto1 cipher, and explored different factors which could affect the speed of algebraic cryptanalysis, under the mentorship of Ms Valerie Choy from DSO National Laboratories.
- Finalist at the Singapore Science & Engineering Fair 2015.

Publications & Research Work

1. Christopher GOH and KOAY Tze Min. Context Aware Web-mining Engine. IRC Conference on Science, Engineering and Technology (IRC-SET), May 2016. Retrieved from http://ircset.org/anand/2016papers/IRC-SET_2016_paper_S5-4.pdf.
2. Christopher GOH, Jasmine LIEW and Melodies SIM. Cryptanalyzing the Crypto1 Cipher. (2015, January 5). Retrieved from <https://chrisgzf.github.io/reports/Crypto1.pdf>.
3. Christopher GOH. Creating Online Computer Games for Cognitive Training. (2016, April 5). Retrieved from <https://chrisgzf.github.io/reports/CognitiveTraining.pdf>.

Extracurricular Activity

River Valley High School - Infocomm Club

Singapore

CLUB PRESIDENT

2010 - 2016

- Led a club of over 40 members in robotics, programming and multimedia education and competitions.
- Club clinched multiple consecutive national championships at the National Junior Robotics Competition, and represented Singapore in several international tournaments during the term.
- Organised robotics competitions to develop technical literacy and interest in primary and secondary school students.

Gen-R

Singapore

CORE MEMBER & DIRECTOR OF PROGRAMMES

Jan. 2014 - PRESENT

- Founded non-profit society with a few like-minded friends to develop youths in leadership, volunteerism and philanthropy through community outreach programs, and to increase IT literacy in the community.
- Organise tech-related competitions / workshops / hackathons for primary, secondary, tertiary students, and charity organisations. Events we organise include the Singapore Tech Challenge, Singapore Makers' Challenge, Robotics Workshop for members of SPD Singapore (previously 'Society for the Physically Disabled').

Boon Lay Community Centre

Singapore

HEAD OF PUBLICITY - BOON LAY COUNTDOWN 2015 & 2016

Oct. 2014 - Jan. 2016

- Worked with Grassroots leaders in organising the annual heartland new year countdown event, attended by over 30000 Boon Lay residents.
- Led a team of 10 in designing of all marketing collaterals and multimedia showcases.

River Valley High School - Y.LEAD Seminar 2015

Singapore

VICE-CHAIRPERSON OF PUBLICATIONS COMMITTEE

Jan. 2015 - Jul. 2015

- Led 20 members in the publicity operations of a week-long international youth leaders summit.
- In charge of setting up WordPress CMS functionality for event.

River Valley High School - Science Leaders' Academy

Singapore

MEMBER

2014 - 2016

- Completed and presented 3 research projects at science conferences, competitions, and at a school exchange at Hackensack, NJ, USA.
- Organised science enrichment camps for primary school students to inculcate scientific interest and curiosity in them.

Skills

Proficient	C, Python, Java, HTML, CSS
Exposure	C++, JavaScript, R, LaTeX
Software and Frameworks	Linux, Git, Vim, JetBrains Suite, Visual Studio, TensorFlow
Fields of Interest	Machine Learning, Data Science
Languages	English (Proficient), Chinese (Proficient)

Honors & Awards

INTERNATIONAL

2015	Best Research 3rd , FIRST Lego League World Festival 2015	St. Louis, MO, U.S.A
2009	Global Top 6 , World Robot Olympiad 2009	Pohang, S. Korea
2007	World Championship , FIRST Lego League World Festival 2007	Atlanta, GA, U.S.A

DOMESTIC

2015	Edusave Character Award , Ministry of Education	Singapore
2015	Daisy Phay Foundation Award , Ministry of Education	Singapore
2015	Bronze Award , National Olympiad in Informatics 2015	Singapore
2015	Championship & Best Programming 1st , FIRST Lego League Singapore 2015	Singapore
2014	Bronze Award , National Olympiad in Informatics 2014	Singapore
2014	Best Robot Performance 1st , FIRST Lego League Singapore 2014	Singapore
2013	Best Strategy Award 3rd , National Junior Robotics Competition 2013	Singapore
2013	??? 1st , FIRST Lego League Singapore 2013	Singapore
2012	??? 2nd , National Junior Robotics Competition 2012	Singapore