

# Leonard Wong

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## EDUCATION

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**Singapore Management University** Aug 2017 – Dec 2021  
**Singapore**  
**Bachelor of Science (Information Systems)**  
**Major in Information Systems (Cyber Security)**

- Quantedge Foundation Scholarship
- MPA Global Internship Award

**Nanyang Polytechnic** Apr 2014 – May 2017  
**Singapore**  
**Diploma in Business Informatics with Merit**

- GPA: 3.91/4
- 4 Distinctions & 13 A's out of 23 modules
- Director's List AY2014/2015 – AY2016/2017 (Attained Director's List every semester)
- Edusave Merit Bursary
- Edusave Skills Award
- Overseas Exchange Student during AY2015/2016 Semester 2 at Gachon University (GPA: 4.1/4.5)

## EXPERIENCE

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**NCS Group** 4 Jan 2022 - Present  
**Singapore**  
**Software Engineer**

- Nucleus 2.0 Programme

**Singapore Management University** 6 Dec – 24 Dec 2021  
**Remote/Singapore**  
**Research Assistant**

Scan 50 IS216 projects using free OWASP ZAP security scanning tool (dynamic analysis tool)

- Scan the same 50 IS216 projects using commercial security scanning tool (dynamic analysis tool)
- Scan the same 50 IS216 projects using a static analysis

**Alpha Ori Technologies Pte Ltd** 4 May – 31 Jul 2020  
**Singapore**  
**Maritime Tech Solutions Intern**

- Graded 'Excellent' for this period of internship
- Developed a system to automate the conversion of over 150 million rows of unstructured data with over 3 billion data points to Amazon DynamoDB
- Developed infrastructure for API trial run of 3 vendors to evaluate the viability of adoption
- Developed program to sort data via MMSI or VesselType
- Aggregated data points & created Voyage plan to analyze trends and identify patterns

**Alpha Ori Technologies Pte Ltd** 13 May – 2 Aug 2019  
**Singapore & Santa Clara, California (Silicon Valley)**  
**Intern**

- Awarded MPA Global Internship Award
- Graded 'Excellent' for this period of internship

- Data requirements analysis to determine 100 data points for Charter Party Dashboard that spread across 12 different screens
- Sole Developer to configure and test AIS Dispatcher using Raspberry Pi, rPiAIS & RTL-SDR
- Acquired knowledge on the functionality & the usage of AIS, VHF, UHF, Raspbian and command-line interface to complement the implementation of AIS Dispatcher

**Thome Ship Management Pte. Ltd.**  
**Singapore**  
**IT Intern**

**7 May – 5 Oct 2018**

- Graded 'Excellent' for this period of internship
- Sole Developer for Enterprise Analytics Portal project, a dashboard view that provides 15 useful data points to complement decision making for ship owner, fleet group & company
- Sole Developer for Ship Agency project, in collaboration with Project Lead in Manila, to streamline Agency Department operations of communications by development of a system to handle over 160 emails/hour.
- Developer for Vessel Information Portal that enhances mapping data for over 230 vessels through the use of various API & improving the UI.
- Sole Developer for Project Scheduler that ensures timely vessels details through automation
- Self-explored several new technologies & API to fulfill tasks at hand (Q88, OpenLayers/OpenStreetMap/OpenSeaMap, Data Warehouse, Data Mart, Console App)
- Helps resolved technical issues when encountered by team
- Self-learnt Progressive Web Apps (PWA) with and developed a demo of a working prototype that was presented to the entire IT team for approval

**RightSpot Pte Ltd**  
**Singapore**  
**Intern**

**Jul – Oct 2016**

- Graded 'Excellent' for this period of internship
- Eliminated over 20 bugs to improve the overall stability of the website within 2 weeks
- Developed a web page to provide an overview of 250 applicants' job status each time
- Sole development of Job Listing & dashboard that populated over 500 companies for the sales team that is responsible for S\$500K of sales

**SamMobile**  
**Remote**

**Jul – Dec 2013**

**Contributing Writer (Freelance)**

- <https://www.sammobile.com/author/LeonardW-2/>
- Written and published an average of 1-2 articles per week for over 1.5 million registered site members

**CO-CURRICULAR ACTIVITIES**

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**SMU Apolitical Society**  
**8th Executive Committee,**  
**Honorary Financial Secretary &**  
**Sub-Committee Member**

**13 Jan to 8 Nov 2018**

- Planned and organized a Ministerial dialogue session, in collaboration with REACH & MINDEF, for Minister for Education (Higher Education and Skills) & Second Minister for Defence Mr. Ong Ye Kung with over 90 attendees across the public sector, JC & university
- Hosted the dialogue session with Senior Minister of State Dr. Janil Puthuchear's with over 20 attendees, in collaboration with OnePeople.sg
- Responsible for all financial matters including but not limited to budgeting & claims

- Planned, organized and executed the Book Launch for SMU Board of Trustees Chairman, Founder & Executive Chairman of Banyan Tree Holdings, Ho Kwon Ping

**Nanyang Polytechnic****Mar – Apr 2015****Publicity Member**

- Edited 2 teaser videos that were posted on NYP Facebook Page and shared with over 350 Nanyang Polytechnic, School of Information Technology's freshman
- Designed and created over 100 name tags with a team of 8 for all Orientation Group Leader, Executive Council Members & facilitators
- Planned, produced and edited 1 credits video that was displayed around School of Information Technology

**SKILLS & INTERESTS**

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- Skilled in HTML, CSS, JavaScript, ASP.NET, C#, SQL, Bootstrap
- Basic proficiency in Python, jQuery, Node.js
- Language proficiency: Fluent in English and Mandarin
- Interests: Reading & Technology