**Leonard Wong**

• [me@leonardwong.tech](mailto:me@leonardwong.tech) • +65 8754 5096 • <https://github.leonardwong.tech/>

• <https://leonardwong.tech> • [https://linkedin.leonardwong.tech](https://linkedin.leonardwong.tech/)

EDUCATION

**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

**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. 7 May – 5 Oct 2018**

**Singapore**

**IT Intern**

• 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 Jul – Oct 2016**

**Singapore**

**Intern**

• 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 Jul – Dec 2013**

**Remote**

**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

PUBLICATION

• Co-authored and published research article with Prof. Shar, L. K., Prof. Poskitt, C. M., Prof. Shim, K. J., & Wong, L. Y. L. (2022). **XSS for the Masses: Integrating Security in a Web Programming Course using a Security Scanner**. *arXiv preprint arXiv:2204.12416*.

CO-CURRICULAR ACTIVITIES

**SMU Apolitical Society**

**8th Executive Committee,**

**Honorary Financial Secretary & 13 Jan to 8 Nov 2018**

**Sub-Committee Member**

• 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 Puthucheary's with over 20 attendees, in collaboration with OnePeople.sg

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

• Responsible for all financial matters including but not limited to budgeting & claims

**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**

• 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