Leonard Wong

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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