

Wilson Chan Li Zhuo 曾立卓

Personal Details

Mobile: (+65) 91313322

Office Email Contact:

wilson.chan@cognizant.com

Email: wilsonchanlz@live.com

LinkedIn: Wilson Li Zhuo Chan
(QR)



Career Objective

A challenging career in spatial and digital technologies which apply methodologies of data analytics, systems design and application development. To deliver solutions, employing my knowledge and skillsets acquired through various stages of professional development, with aspiration to learn and further develop my innovative potential, technical skill and competencies.

Educational Qualifications

2020 – 2021

National University of Singapore, Institute of Systems Science, Singapore
Graduate Diploma in Systems Science

2015 – 2018

Macquarie University, Sydney Australia
Bachelor of Science: Double Major in Spatial Information Science and Climate Science

2014 – 2015

Macquarie University Foundation Program, Sydney Australia

2000 – 2013

Shanghai High School 上海中学, Shanghai China

Work Experience

- **2021 September to Present – Graduate Analyst at Cognizant Technology Solutions**
At Cognizant, I worked as a graduate software developer working on server-side development in support of the Gresham CTC banking reconciliation platform for Credit Suisse.

- **2021 March to July – Software DevOps Intern at Land Transport Authority (LTA)**

At the Land Transport Authority E-Payments Department, I work with the DevOps team to explore the feasibility of implementing the containerization architecture to improve software scalability and operational efficiency of the existing systems available on the fleet of buses in Singapore. As part of the process, I was assigned to liaise with various software vendors to present their solution for our group evaluation.

Due to unavailability of use of physical systems due to COVID-19 restrictions, I set up a test environment using an array of single board computers and created a lightweight web interface to act as a broker while connecting to K3S servers remotely. This also successfully demonstrated the power of implementing such Kubernetes technologies, where it is possible to create an easy-to-deploy, lightweight solution that simplifies systems maintenance requirements, meeting some of our deployment objectives. I report to the Manager, Development Operations.

- **2020 March to July – Data Science Intern at Global E-Trade Services (CrimsonLogic)**

The company formed a dedicated data team focused on data drilling, analysis and aggregation for the maritime logistics business, with intention to generate databases, reports for commercialization. Numerous collected data, such as customer sales, “usage and subscriptions” were analyzed using Python and R statistical tools to identify trends and implications. These serve to provide clarity for business direction and growth, as well as, to enhance customer user experience. Participated in various client meetings, supported the business leaders in preparation and as translator, as most of these were Chinese companies.

- **2018 to 2020 – Sea Surveillance for the Republic of Singapore Navy**

During my National Service in the Republic of Singapore Navy from April 2018 to present, I was trained as a surveillance specialist deploying military surveillance equipment to monitor ships maneuver within the protected vicinity of the largest Singapore Naval Base. My job scope included team management, training of new trainee members, activation of patrol craft as well as liaison with other security agencies and foreign visiting military vessels to ensure the compliance of security policies as well as international standards and practices.

- **2016 Summer Internship at RideNow Global (China) Ltd.**

The company organize bike tour packages and events at various locations in China. Supported the Development team in maintenance of customer payments system using SAP and Python programming. Assisted in creating a proof of concept with the WeChat payment gateway. Researched for tour packages, perform translations for website content etc.

- **2015 Summer Internship at Yum China Ltd.**

Yum China is a fast-food restaurant chain operation with over 6000 outlets under the KFC and Pizza Hut brands. As an intern with the HR Staffing team, I participated in 2015 recruitment campaign design activities, working on database compilation and analysis.

Technical Competencies

- Statistical Analyses: Fully competent with SPSS, Matlab, Microsoft Excel, Minitab
- Database Analyses: Familiar with most DBMS including SQL Server, MariaDB
- Web Development: Familiar with ASP.NET Core and Java Spring Boot
 - o Familiar with the Angular Framework
- Programming Skills: Competent with C#, Java, Python for Machine Learning
 - o Familiar with C++;
 - o Familiar with application development based on Agile practices.
 - o Familiar with application containerization technology such as K3S and Docker.
- Geospatial Analyses: Fully competent with ArcGIS, QGIS environments
- Generic Application Software: Both in Windows and OSX Environments: Word processing, presentation and social media software
- Other Skills: Competent with Final Cut X, Sony Vegas and Photoshop.
Fully competent with Music Digital Audio Workstations such as Logic Pro.
- Languages: Effectively bilingual in Chinese and English.

Projects: Macquarie University Final Year Projects

Research and Preservation of Balgowlah Flying Foxes

The project was initialized by the Sydney Manly Environment Center of Australia to analyze the impacts of migrating Flying Fox (bat) populations in the Balgowlah district within the Manly town and propose a management solution to preserve the habitat and support the co-existence with the residents in the nearby estates. The project successfully provided relevant recommendations and execution plans for site improvements as well as proposal for educational events for residents within the region.

Vectorization of Built Environment for the Ryde City Council of Sydney

The nine-week full-time project involved site survey and utilized the ArcGIS software package to digitize buildings and environmental assets in sections of North Ryde within the Greater Sydney area which enhanced and integrated into the Ryde City Council Database. Analysis and design of 'building data' was carried out to capture building information using technologies such as ArcGIS spatial services and MS SQL Server.

Interests:

I am interested in acquiring technical skills and relevant knowledge to enhance my ability to develop real-world solutions using established tools, techniques, and methodologies. To this objective I have undertaken many online programs from Open Universities and EdX to further develop my programming competencies, data modelling and machine learning skills. I also have an avid interest in hardware devices such as the programming of single board computers (SBCs) and engineering devices.