

Nicholas WAN

Mobile: +65 9851 0403

Email: nicholaswan@nus.edu.sg

Skype: nicholaswan

Github: <https://github.com/nicholas-wan>Website: nicholaswan.me

Personal Statement

I am Nicholas Wan, a Business Analytics undergraduate from the National University of Singapore (NUS). I am currently seeking to secure a year-long internship in a start-up in Silicon Valley, USA, from July 2019, as part of the NUS Overseas Colleges Programme. I wish to pursue a career in Data Analytics, as I believe data can provide meaningful information for businesses to make better decisions, and even improve the lives of others. My main skillsets and interests are Machine Learning, Deep Learning, and Natural Language Processing.

About Myself

I am an independent and motivated individual who is always willing to learn. Since December 2018, I have been working (still working part-time presently) at National University Hospital as a Data Scientist, and have worked on projects such as predicting patient readmission, as well as text analysis and information extraction, as well as generating synthetic data. I have also been working on an exploratory study that analyses patient data on abortions.

Additionally, I have strong leadership qualities, time-management and organizational skills. I play a prominent role in as a member of the executive committee Programming club in NUS. I have organized and conducted multiple events to teach non-programming students basic programming language such as python, HTML & CSS, and photoshop. I have also contributed to projects for the college through the front-end development of their websites, and an algorithm to assign students rooms (previously done manually). I believe in applying the knowledge and skills that I have learned to contribute to the community, and I teach underprivileged children basic python every weekend.

Previous Work Experiences

Other than my experience working at National University Hospital (Dec 2018 – Present), I worked on 2 web development projects, *Admore Living* (Oct – Dec 2018), a high-end furniture brand, and *Bags by Samarkyra* (Aug – Oct 2018), a company that sells uniquely designed handbags. Last summer, I also did an internship at *Guco Consulting* (May – Aug 2018), where I worked as a web developer where I developed and designed websites for four separate companies.

How can I contribute

I can contribute in areas that require knowledge on data analytics or web development, or even design. I am familiar with Machine Learning and Deep Learning. I constantly seek to improve my knowledge, such as by obtaining certificates from Coursera on Deep Learning. Some skills that I have interest in learning are web mining and computer vision. If I do not have a skill that the company requires, I am keen to try learning that skill before entering the company.

My Aspirations for NOC Silicon Valley Internship

Having worked in a Start-up before, I understand that I may be required to take on different roles, and I am prepared for that. Throughout this internship, I aim to achieve three main objectives. Firstly, I would like to hone my technical skills, and I believe that working in a Start-up will be a great opportunity to do so. Secondly, I want to make an impact on the company. Start-ups are small. Every employee matters, and I want to make a difference. Lastly, I believe that this is a great avenue for personal growth, where I am able to work with others of a different culture, and a different environment.

Weakness

I believe in giving my best for all my work and I strive to achieve my work with perfection, and thus, may put myself under pressure. However, I believe that a certain level of stress is necessary to achieve work of good quality, and I constantly remind myself to regulate the level of stress with recreational activities like badminton or swimming.

All in all, with my experiences, skill sets, strong motivation and attitude towards learning, I believe that I can contribute significantly to your company and be a great addition to the company's dynamics.

Education

Aug 2017 - Present	National University of Singapore Bachelor of Science (Honors) in Business Analytics	Singapore
Jan 2013 - Dec 2014	National Junior College <ul style="list-style-type: none">• Singapore-Cambridge General Certificate of Education Advanced Level• Subjects: Physics (A), Chemistry (A), Mathematics (A), Economics (A), General Paper (A), Project Work (A)	Singapore

Work Experience

Dec 2018 – Present	National University Health System <i>Data Science Intern</i> <ul style="list-style-type: none">• Carried out research applying machine learning and big data analytics in the healthcare domain. Used Natural Language Processing techniques to predict patient re-admission within a 1- month period.	Singapore
Oct 2018 – Dec 2018	Admore Living Pte. Ltd <i>Web Developer (Part time project)</i> <ul style="list-style-type: none">• Hired as a web developer to create a website to market a high-end furniture brand. Admoreliving.com	Singapore
Aug 2018 – Oct 2018	Bags by Samarkyra <i>Web Developer (Part time project)</i> <ul style="list-style-type: none">• Hired as a web developer to create a website to sell unique handcrafted bags, with a vision to create employment for the minority. bagsbysamarkyra.com	Singapore
May 2018 – Aug 2018	Guco Consulting Group <i>Web Developer (Internship)</i> <ul style="list-style-type: none">• Responsible for developing websites for 3 different companies	Singapore
Mar 2015 - Jan 2017	Naval Diving Unit <i>2nd Sergeant</i> <ul style="list-style-type: none">• Operations IC, Logistics IC, Dive Team Leader	Singapore

Scholastic Achievements/Extracurricular Activities

Aug 2017 - Present	NUS Merit Scholarship (National University of Singapore)	Singapore
Aug 2017 - Present	Projects <ul style="list-style-type: none">• Zera - Medical chatbot that provides a preliminary assessment of symptoms, and a web application to provide a platform for the comparison of active ingredients of medication (e.g paracetamol) as well as products (e.g Panadol)• Attributing Responsibility – Hack that won first place at Yale-NUS Data Science competition, Hack4Climate. tinyurl.com/ynclizzard	Singapore
Jan 2013 - Present	School Contributions <ul style="list-style-type: none">• NUS CAPTSLOCK- Taught programming skills to students of College of Alice & Peter Tan to promote technological awareness• Lightsabering with the Deaf - Learned sign language and facilitated an event for the Deaf.• Vice President of Public Address in National Junior College	Singapore
Jan 2013 - Dec 2014	National Junior College Awards <ul style="list-style-type: none">• Edusave Award for Achievement, Good Leadership and Service• Edusave Good Progress Award	Singapore

Skill Sets & Proficiency

Office Productivity	Microsoft Word, PowerPoint Microsoft Excel	Proficient Intermediate
Multimedia	Adobe Photoshop CS6 Adobe Premiere Pro	Intermediate Basic
Web	HTML CSS MeteorJS	Proficient Proficient Basic
Database	MySQL MongoDB	Intermediate Basic
Programming	Python Java R C++ JavaScript	Proficient Proficient Intermediate Basic Basic
Data	Tableau Machine Learning Natural Language Processing	Intermediate Intermediate Intermediate
Operating Systems	Windows 10, XP Mac	Intermediate Intermediate
Management	Git	Intermediate
Non-technical Skills	Project Management Leadership	Intermediate Intermediate

Language Proficiency

Spoken	English – fluent; Mandarin – average; Japanese – average
Written	English – competent; Chinese – average; Japanese – average

Additional Information

Hobbies & Interests	Badminton, Swimming Web Design, Image Editing
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Degree: Bachelor of Science (Honors) in Business Analytics
Cumulative Average Point: 4.64 / 5.00

Year	Level	Course Description	Grades
Mar – Jun 2017	Special Term	Programming Methodology	A-
Aug – Nov 2017	Year 1/Semester 1	Quantitative Reasoning	A
		Introduction to Business Analytics	A
		Data Structures and Algorithms I	A-
		Exploring Blogs as a Form of Communication	A-
		Computing and Society	S
		Roots and Wings- Personal and Interpersonal Effectiveness	
Jan – May 2018	Year 1/Semester 2	Calculus for Computing	A+
		Principles of Economics	A+
		Principles of Marketing	A
		Data Management and Visualisation	A-
		Nobodiness: The Self as Story	A-
		Jr Sem: Family in a Changing Singapore	CS
May – Jul 2018	Year 1/Summer	# Independent Work (Orbital)	CS
Aug – Nov 2018	Year 2/Semester 1	Decision Making Methods and Tools	B+
		Linear Algebra I	CS
		Data Structures and Algorithms II	B+
		Environment and Civil Society in Singapore	A-
		Public Health in Action	A
Jan – May 2019	Year 2/Semester 2	Computational Methods for Business Analytics	In-Progress
		Probability and Statistics	In-Progress
		Business and Technical Communication	In-Progress
		Application Systems Development for Business Analytics	In-Progress
		Independent Study Module (Analysis on Abortion Data)	In-Progress
		Identities in Asia	In-Progress

The **Independent Work (Orbital)** allows year 1 undergraduates from all faculties to form a team of 2 and create any project within 3 months. It is an independent project and, thus, students are required to do their own research and self-study. This allows students to gain an experience of doing a self-study project. I paired up with my friend, a business analytics student, to design a healthcare web application.

NUS Grading Scale:

A+ & A (5.0); A- (4.5); B+ (4.0); B (3.5); B- (3.0); C+ (2.5); C (2.0); D+ (1.5); D (1.0); F (0)

S = Satisfactory; U = Unsatisfactory

CS = Completed Satisfactorily; CU = Completed Unsatisfactorily

EXE = Exempted; IC = Incomplete; IP = In Progress; W = Withdrawn

17 Jan 2019

TO WHOM IT MAY CONCERN

TESTIMONIAL FOR NICHOLAS WAN JIA SHUN

Nicholas Wan is an energetic individual whom I had the opportunity to work with during his internship in National University Hospital. As a Data Science intern, Nicholas worked closely with me and the Technology Office, contributing to our department during his 5-week internship, from December 2018 to January 2019.

During his internship, Nicholas embarked on a machine learning project, building a 30-day readmission prediction model. This project required him to learn many new techniques, especially Natural Language Processing (NLP) techniques, which he had to learn on the spot. His agility in grasping concepts allowed him to understand the problem, dataset, and methodologies quickly. He was able to develop a working model within a short period, completing his first prototype in about 1 week. He has also neatly documented his work.

Having Nicholas was a delight. He has shown to have a strong passion in healthcare analytics. He takes pride in his work and is a hardworking and meticulous individual. He is an independent and self-motivated individual who could work with little supervision and a strong team player. He works well with other interns and actively takes part in discussions to solve problems.

In this regard, I would like to commend on his contributions, and I am confident that he will be useful to the organizations that he joins in the future.

Yours sincerely,



Steven Kester Yuwono
Data Scientist, Technology Office
National University Health System
Email: steven_yuwono@nuhs.edu.sg