Qing Yang TAN

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Personal Statement

About Me

I am a Final Year Business Analytics undergraduate at National University of Singapore (NUS). I am **fluent in Java, Python and R** and love developing algorithms to uncover new insights. At the age of six, I love dismantling items to understand the underlying components required for the product to function. That satisfies my curiosity. With big data, it fuels the same curiosity when I dive deep into the different layers to find an answer to a yet unknown question.

My Interests

I have a passion in perennial learning, particular in the field of Artificial Intelligence that complements Data Analytics. I find it particularly interesting when data tells an insightful story that otherwise undetected by humans. Through my internship journey, I discovered the joy and challenges working in the role as a Data Scientist. I love the challenges. As I set foot into my next chapter of life, I am excited to meet like-minded people and be the best version of myself.

Internship Experiences

StarHub Intern (Telecommunication company based in Singapore)

Upon completing the first year of study in NUS, I was amazed with what programming can offer. Excitedly, I embarked on my first internship at StarHub in the data analytics department. It was there when I experienced that the working world does not offer the same cushioning as the school environment does. I was tasked to complete a project in which I had no prior knowledge – Scala (Programming language) and Apache Spark framework. Being fresh to SQL, I had to apply queries which had been briefly taught at school. Nonetheless, I **enjoyed the challenge**. A part of me loved the exploration abounded with obstacles as each hiccup became a learning point.

The key takeaways from this internship were **adaptability** and **independent learning**. Using the resource that I had - Google, I was able to puzzle pieces of information from the Internet and sieve out the pertinent ones. With that skill, I was able to complete the given task in the shortest time with minimal guidance. While that may seem trivial, it was a personal turning point where I learnt to pick up new and foreign knowledge at an accelerated speed.

Schneider Electric Intern (French Multinational Corporation specializing in energy management)

I took every internship as an opportunity to improve myself in all dimensions. As such, with this second internship, I sought to place more emphasis on honing my **communication skills**. From the beginning, I established an open communication channel with my mentor where we had weekly exchanges on my work progress. With this establishment, I could make timely adjustments based on the feedbacks and built a zonal marketing dashboard (Tableau Software) way in advance of the internship's requirement. To maximize my learning at Schneider Electric, I requested for additional tasks in which I had the opportunity to render assistance in the automation of data load with Microsoft SQL (SSIS) as well as VBA scripting for Microsoft Excel.

Work Experience

Jan 2018 – Present	**AppZen**	United States, CA
	Data Science Intern	

- Automation of error logging in Kibana
- Data Modeling and Machine Learning
- Data Collection with Web Scrapping
- Database Migration
- Revamp audit algorithms and logic

Jun 2017 – Aug 2017	**Schneider Electric**	Singapore
	Business Analyst Intern	

- Building zonal marketing dashboard with Tableau
- Automation of data load with Microsoft SQL, SSIS
- VBA scripting

Jun 2016 – Aug 2016	**StarHub**	Singapore
	Business Analyst Intern	

- Unit testing with python locust
- ETL with Apache Spark, using Scala language

Project

Aug 2016 – Nov 2016	**The Coca Cola Company (TCCC) Analytics Report**

- Webscraping to collect users' comments from Amazon, Twitter and YouTube
- Using wordcloud and sentiment analysis, the success or shortcomings of TCCC were identified

Education

Aug 2015 - Present	**National University of Singapore**	Singapore
	Bachelor of Science (Honors) in Business Analytics	
	(Course details in Appendix A)	

Scholastic Achievements/Extracurricular Activities

Aug 2016 - Present	**IPREP Scholarship**
	Infocomm Media Development Authority of Singapore (IMDA)

June 2016	**SAS Certified Visual Business**
	Exploration and Design Using SAS Visual Analytics

June 2016	**School Contribution**

- NUS School of Computing Freshmen Social Camp Committee

Skill Sets & Proficiency

Programming	Java	Proficient
	Python	Proficient
	R	Proficient
	JavaScript	Intermediate
	Scala	Basic
Data Analysis Tools	R Studio	Proficient
	Tableau	Proficient
	SAS	Intermediate
	Matlab	Basic
Data Library (Python)	Pandas	Proficient
	Scikit-learn	Proficient
Database	MongoDB	Proficient
	MySQL DBMS	Proficient
	MS SQL	Intermediate
	Postgres SQL	Proficient
Framework	MeteorJS	Intermediate
	Apache Spark	Basic
Web Scraping	CasperJS	Proficient
	BeautifulSoup	Basic
	Scrapy	Basic
	Selenium (Python)	Proficient
Web Development	HTML, CSS	Proficient

Language Proficiency

Spoken	English	Fluent
	Mandarin	Fluent
Written	English	Competent
	Mandarin	Competent

Degree: Bachelor of Science (Honors) in Business Analytics
Cumulative Average Point: 4.27 / 5.00

Course Type	Course Description	Grades
Business	E-Business Essentials	A
	Principles of Economics	A
	Principles of Marketing	A
	Business and Technical Communication	B+
	Financial Accounting	S
	Strategic Applications	S
	IS Innovations in Organization and Society	A-
Business Analytics	Introduction to Business Analytics	A-
	Application Systems Development for Business Analytics	B+
	IT Decision Making	B+
	Business Analytics Capstone Project	A
	Computation Methods for Business Analytics	A
Computing	Programming Methodology	S
	Data Structures and Algorithms I	B+
	Data Structures and Algorithms II	B+
	Machine Learning	B-
Mathematics	Calculus for Computing	B+
	Linear Algebra I	B+
	Probability and Statistics	B+
	Regression Analysis	B+
	Operations Research I	B+
Others	Economic Issues in Developed World	A
	Critical Thinking in the Information Age	B+
	Quantitative Reasoning	B+
	Real Estate Development and Investment Law	S

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

Testimonial: StarHub

StarHub

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Tel: (65) 6825 5000
Fax: (65) 6721 5000

Reg. No.: 199802208C

16 August 2016

To Whom It May Concern

Testimonial for Mr. Tan Qing Yang

Qing Yang was an intern with StarHub's SmartHub team from 9 May 2016 till 5 Aug 2016. During his internship, he was involved in various big data processing and analysis tasks. For these tasks, he primarily used Spark and Scala for development.

Even though Qing Yang was new to the area of work and technology used, he was diligent and able to learn the required skills. While it took him some time to get his fundamentals up, he was able to do so with minimal guidance, and was able to quickly adapt his new skills to various problems. He was also detailed in his analysis and able to identify errors and inconsistencies in the data.

Overall Qing Yang is competent, willing to learn and has a good working attitude. He will be an asset to any future team that he joins.

Yours Faithfully,
StarHub Ltd

Neo Huimin
Principal Engineer
SmartHub, Platform Group

Testimonial: Schneider Electric

Life Is On | **Schneider** Electric

11th Aug 2017

Reena Agrawal
Business Partner — BI Solutions
East Asia Japan, IPO
Schneider Electric

To Whom It May Concern,

Reg : Qing Yang Tan — Letter of recommendation

I am happy to provide this referral letter for Qing Yang Tan, a student of National University of Singapore, who was an intern in my team from 8 May 2017 to 11 Aug 2017, as a Business Intelligence Analyst.

Qing Yang exhibited a passion for learning and experimentation. He demonstrated the ability to quickly ramp up on new technologies and update his skills to align with the project needs. He displayed balance of excellent programming ability with optimal business acumen.

As part of his internship, he was tasked with building a zonal Marketing Dashboard to provide KPIs and metrics for business decisions. To accomplish this, he used a combination of tools and technologies — Excel Macros for Data transformation and Tableau Desktop for Visualizations. He also implemented MS SQL Server Integration Services package for data load for another project.

Qing Yang was able to accomplish his tasks in a timely manner and with minimal guidance.

It has been a pleasure to be his mentor, and I am confident that he will be a strong asset for future teams.

Regards,

Reena Agrawal

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schneider-electric.com