

Justus SOH Zhi Heng

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Personal Statement

About Me

I am a data analyst, full stack web developer and a student from the National University of Singapore pursuing a bachelor's degree in business analytics. I am a strong believer in "Code to learn not learn to code". Learning isn't simply about regurgitating head knowledge about a certain subject or scoring well in tests. It is the ability gained to add value and solve real world problems. Data analytics is that way to optimize processes and create value through making informed decisions which is what makes analytics exciting. I wish to positively impact my society by creating value with technology and data analytics.

Internship Objectives

I am currently pursuing a full-time internship program at San Francisco, California from January 2020 onwards, particularly in the area of data analysis and software development. Through the internship program, I hope to be challenged and stretched in ways that result in personal and professional progress. I also wish to learn alongside others and be allowed to take ownership of my work. Finally, I would also like to interact with my colleagues and learn more about their culture.

Strengths

I am a highly motivated individual and I give my 100% in everything I do. This is because I take ownership of whatever I am doing and believe that the results are within my control. This has shown true in my internship with *Ship Supplies Direct*, after I finished my assigned work in data analytics, I took the initiative to pick-up front-end development because it was a skill the company needed most at that point of time. I also decided to learn backend development to relieve the workload of my superiors so that they can focus more on the important aspects of the product. This allowed me to start managing projects and take on more responsibilities as an intern.

I am also a problem solver. When I encounter a difficult problem, my mindset is to think of ways to overcome and solve the problem. One of my tasks as a data analyst was to develop a comprehensive algorithm to predict delays in ship arrivals timing at Singapore ports and when deliveries should start. Unfamiliar with the marine time industry, I meet many difficulties in trying to develop an accurate algorithm. Despite countless failed iterations, I always think of new ideas on how to improve the accuracy and sensitivity of my model. I was willing to do everything to improve, which included reaching out to ports to interview staff about the berthing process and factors affecting delays and soliciting advice from knowledgeable logistics companies in the industry. Albeit it being unconventional, I decided to head down to a partner's headquarters to better understand their processes. I am a firm believer of 'DO', and I will put in my 100% to get to the end goal.

Work Experience

Previously, I interned at Ship Supplies Direct, a small tech startup in the marine time industry doing logistics, as a data analyst and software developer. Interning at a startup though stressful and tiring, is a choice that I do not regret making. The fast pace work sprints have taught me how to prioritize work and have exposed me to the different facets of computing beyond what I learn in the classroom. Developing applications is simple, but what is difficult is giving customers what they never knew they wanted, maintaining good relations with customers and managing expectations, time and resources, all of which I had the opportunity to handle during my internship experience. Also, through communicating and collaborating with my colleagues and superiors, I have learned how to communicate clearly and concisely. I believe that this work experience has taught me valuable which will be relevant to companies I may work for in the future.

Skill Sets

The main area of my expertise is in Data Analytics (Descriptive, Prescriptive and Predictive Analytics) using R and Python. In addition, I can also do Data Visualization using Tableau to transform data into a more readable format to gain better insight and also Data Management on relational databases like MySQL and non-relational like MongoDB. I am also skilled in full stack web development (HTML, CSS and JavaScript), familiar with MERN stack. I also know Illustrator, Photoshop, InDesign and XD for design. I am fluent in spoken and written English and Chinese.

Thank you for taking your time to read my personal statement and I look forward to working with you.

Education

Aug 2018 - Present	National University of Singapore Bachelor of Science (Honours) in Business Analytics University Town College Program (Course details in Appendix A)	Singapore
Jan 2014 - Dec 2015	Meridian Junior College <ul style="list-style-type: none">Singapore-Cambridge General Certificate of Education Advanced Level (86.75 / 90.00)Subjects: Physics (A), Chemistry (A), Math (A), Economic (B)	Singapore

Work Experience

Aug 2019 – Present (Part Time) May 2019 – Aug 2019 (Intern)	Ship Supplies Direct <i>Data Analyst / Software Developer Intern, Part Time</i> <ul style="list-style-type: none">Created a model to predict delay of vessel arrival timing to a 80% accuracyAnalyzed list of potential customers based on data (trip frequency/volume) and created a dashboard to allow for more data driven decisionsDeveloped a computer vision model to identify and count items using CRNN model to a 73% accuracyOverhauled websites for SSD and Simpffleet to improve user experienceBuilt job creation, dashboard, analytics, job scheduling and view details modules for SimpffleetDesigned and implemented a scheduling algorithm to find most efficient route of delivery (Referral from CEO in Appendix B)	Singapore
Jan 2016 – Nov 2017	Singapore Armed Forces <i>Pioneer and Vehicle In-Charge, 36 Singapore Combat Engineers (EOD)</i> <ul style="list-style-type: none">Responsible for deployment and maintenance of all vehicles in 36SCE achieving 100% mission successManaged nineteen men in 36SCE for daily operations ensuring 24/7 operational readiness	Singapore

Scholastic Achievements/Extracurricular Activities

May 2019 - Aug 2019	Orbital 2019 Apollo 11 – Highest level award, Nominated Judge's Choice <i>Project summary:</i> Fifty50 is a web application which allows for online polling of questions for quick thoughts and opinions. Collaborate with a partner to build a web application with React and FireBase.	Singapore
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Link to the project: fifty50x.web.app
 Link to code repository: github.com/justussoh/fifty50

Aug 2018 - Present	Tembusu College <ul style="list-style-type: none"> Co-leaders for Tembusu Christian Fellowship Member and represented Tembusu College for Floorball in ICG'18 Member of Tembusu Climbing Club 	Singapore
Jan 2014 - Dec 2015	Meridian Junior College <ul style="list-style-type: none"> Colors Award for leadership qualities Vice President for Orientation Committee Member of the MJC Entrepreneurship Club 	Singapore

Skill Sets & Proficiency

Web	HTML, CSS React Framework (JSX) Vue Framework	Proficient Proficient Basic
Database	MySQL DBMS MongoDB	Proficient Intermediate
Visualization	Tableau Plot.ly Google Charts D3JS	Proficient Intermediate Proficient Basic
Scripting	JavaScript	Proficient
Programming	Java Python R	Proficient Proficient Proficient
Office Productivity	Microsoft Word, PowerPoint Microsoft Excel, Publisher	Proficient Intermediate
Multimedia	Adobe Illustrator CC 2018 Adobe Lightroom CC 2018 Adobe Photoshop CC 2018 Adobe Indesign CC 2018	Proficient Proficient Basic Basic
Operating Systems	Linux Windows 8,10	Basic Proficient
Non-technical Skills	Project Management Writing/Publications Photography Videography Communication and Presentation	Intermediate Intermediate Intermediate Intermediate Proficient

Language Proficiency

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

Degree: Bachelor of Science (Honours) in Business Analytics

Cumulative Average Point: 4.42 / 5.00

Subject Category	Course Description	Grades
Data Analytics	Introduction to Business Analytics	B+
	Decision Making Methods and Tools	A-
	Data Management and Visualization	A
	Application Systems Development for Business Analytics	In-progress
Programming Methodology	Programming Methodology	A-
	Programming Methodology II	B+
	Independent Software Development Project	CS
	Data Structures and Algorithms	In-progress
Foundational Modules	Calculus	S
	Quantitative Reasoning	S
	Junior Seminar: Crime and Punishment	CS
	Algorithmic Culture and its Discontents	S
	Linear Algebra I	S
	IS Innovation in Organizations and Society	A-
	Business and Technical Communication	In-progress
	Risk and Popular Culture	In-progress
	Senior Seminar: Biomedicine and Singapore Society	In-progress
	Career Catalyst	In-progress

Decision Making Methods and Tools seeks to acquaint students with various IT-driven tools, software (R and Python) and machine learning techniques for analyzing real-world data to make data-driven decision. Some examples of statistical tools taught are regression analysis, time series analysis, random forest, ANOVA and ARIMA model. Students will form groups of 4 to 5 to mine data and apply data analytic tools and techniques to gather useful information from the data to provide insights to optimize business processes as a final project.

Data Management and Visualization provides students with understanding of data management using relational database management systems like mySQL, as well as data visualization principles, techniques and tools using Tableau. At the end of the module, students will be required to submit a 2-part project. The first section entails the creation of suitable schemas and attributes to store data given as well as writing queries to find required data. The second section requires students to create an intuitive dashboard and visualizations according to the requirements set by users.

Application Systems Development for Business Analytics trains students to be familiar with technologies used in designing IT applications systems for business analytics. Major topics includes rapid web frameworks (Vue), scripting languages (JavaScript), database design (Firebase), web and mobile interfaces, tracking and analysis of users. At the end of the module students are required to deploy a serverless web application (AWS Lambda & API Gateway) to aid students in learning through providing feedback and improving their product through the use of data analysis of user behaviors.

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



SHIPSUPPLIESDIRECT

Referral from Eric Cean, CEO of Ship Supplies Direct

Dear Sir/Madam

In the 3 months that Justus has been working together with the Ship Supplies Direct (SSD) team, he has exhibited very strong entrepreneurial traits, namely initiative, flexibility and curiosity.

For initiative, one of the most important traits that an entrepreneur must have, Justus always showcases it by how he would see a problem and automatically seek a solution for it before being told to do so. In a start-up like SSD, the management is often busy with their own executional tasks as well as having to be leaders of a team. As such, it can be time consuming when work done by other team members must be constantly reviewed and corrected or team members require significant guidance in solving problems. Very fortunately, Justus has always taken the initiative, leveraged his superior intellect and resourcefulness to find out how to resolve problems he discovered without requiring the attention of management, with his work very often being of a high quality.

For flexibility, Justus has proven himself to be very flexible and versatile in the roles he could take up. SSD has been very fortunate to have Justus working in our team because, while he joined us to become a Data Analyst, at various points in his time with us, he was an Operations Coordinator and Software Developer. Not only did he embrace these roles with a positive attitude, he proved to be able to adapt to the varied demands put upon him and significantly helped us move our company forward.

Lastly, for curiosity, although Justus has had very limited exposure to the maritime industry prior to joining SSD, he gladly used every opportunity to learn more about different aspects of the industry, beyond the confines of his role. He would enquire in great detail about various aspects of live operations and management decision making, taking every opportunity to expose himself to new concepts. This is also why he was able to quickly become productive in the varied roles he was tasked in.

I could spend more time listing out Justus's qualities but that would require more words than this application can bear. I would end this testimonial with a whole-hearted endorsement of Justus's entrepreneurial abilities and I am certain that be it within an organization or without, he would continue to be able to add significant value to the people whom he works with.

ERIC CHEAN YUFEI

Chief Executive Officer (CEO)

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