

Winson Yong Seng, Heng

+65 8287 6775
winsonheng@u.nus.edu
winsonheng@hotmail.com
<https://winsonhys.github.io>
<https://github.com/winsonhys>



Personal Statement

I hope to broaden my horizons, and through this internship, I would like to do just that. By working at a startup in Silicon Valley, California, I would have a valuable opportunity to learn how companies operate and make decisions and I would be able to compare this to Asia. Furthermore, I am keen to pursue a career in software engineering in the future, and through this internship I hope to pick up good software engineering practices, particularly those in DevOps and testing. In addition, I consider picking up technical knowledge and its application to be a huge bonus, particularly those relating to parallel computing or artificial intelligence.

My passion in software engineering stems from the fact that I can build and create things with just a computer, in almost any setting. It is incredibly fascinating that most of our world runs on software created with just a human and a computer. I have an interest in parallel computing and artificial intelligence because I am amazed at how neural networks work and I would really like to pick up relevant, practical knowledge to allow me to pursue a career in that field.

With regards to software engineering, I had an internship stint at StaffAny, a startup in Singapore focusing on employee scheduling and payroll. I was a full stack software developer intern working on the mobile application. It was my first exposure to software engineering and I gained invaluable experiences from it. From technical skills like mobile app development to soft skills like how to work with multiple developers, I picked up knowledge that was not formally taught. Every day was a learning opportunity for me and I made certain to internalize and apply the skills and knowledge my mentor taught me.

I am an independent learner. I feel that I learn the most whenever someone points me in the general direction and I discover what I need to know for myself. Besides not requiring handholding when tasked with something difficult, I appreciate the autonomy. The process of discovering new knowledge and completing tasks independently gives me a sense of achievement, spurring me to keep stepping out of my comfort zone to challenge myself and to engage in continuous learning. Rather than being afraid of the possibility of failure, I am more fearful of missing out on opportunities to learn.

Completing my tasks promptly without procrastination and thinking through the entire process before embarking on them are practices I adhere closely to, hence enabling my efficiency. Before starting on any task, I will always think things through. During my time at StaffAny, after picking out a ticket, the first thing that I will do is plan out and jot down the steps on how the ticket should be implemented. That way, I do not run into the risk of refactoring everything just because I missed out on something crucial. Being efficient also enables me to accurately estimate the tightest deadlines that I can meet. If I say I require 3 days to complete a task, I am always able to meet it.

There might be instances where I forgo some of the details that might be important to my work, such as miss out testing certain corner cases that do not come up often. Hence, I strive to make a conscientious effort to be more meticulous in my work so that my tendency to overlook details can be avoided.

I believe that with my attitude, experience and efficiency, I can contribute substantially to the productivity of the company. I can also provide insights into some of methodologies that eastern companies apply which the company can consider to obtain fresh perspectives on organizational and decision-making issues.

Education

AUG 2017 - PRESENT

Bachelor of Computing (Honours) in Computer Science / National University of Singapore (NUS), Singapore

(Course details in Appendix A)

JAN 2012 - DEC 2014

Singapore-Cambridge General Certificate of Education Advanced Level / Meridian Junior College, Singapore

- Obtained ranking points of 87.5/90

Work Experience

MAY 2018 – AUG 2018

Software Engineer Intern / StaffAny, NUS Enterprise (School of Computing Furnace), Singapore

Software Engineer Intern at StaffAny, a company that provides solutions to scheduling employees

- Full stack developer in charge of creating and maintaining the cross-platform mobile application
- Collaborated with a team of engineers to implement main features for the application. Some of these include employee clock in-clock out, user sign up and adding users to different shifts.
- Undertook and independently implemented many different small-scale features, both frontend and backend. Some of them include User Interface, User Experience (UIUX) and data storage, data retrieval from the database
- Participated in business development, including following up on business leads and acquiring new leads.
- Contributed to critical decision making in deciding which direction StaffAny should take regarding UIUX and general operations and procedures

JAN 2018 – MAY 2018

Teaching Assistant (TA)/ National University of Singapore, Singapore

Teaching assistant for CS2030, Programming Methodology II

- In charge of conducting lab sessions as well as helping students facing difficulty regarding the concepts of Object-Oriented Programming (OOP)
- Worked closely with Dr Ooi Wei Tsang in planning out and implementing a new curriculum which aims to teach students the concept of OOP.
- Evaluated current procedures and assignments of the curriculum and recommended improvements.
- Conducted due diligent checks on students to ensure they are keeping up with the curriculum

Technical skills

- Test-Driven Development (TDD)
- Object-Oriented Design and Development
- Behavior-Driven Development (BDD)

Technological Stack and Proficiency

- | | | |
|----------------------------|--|--|
| • Programming | <ul style="list-style-type: none">• Java• C• Shell Scripting | Proficient
Intermediate
Basic |
| • Web | <ul style="list-style-type: none">• HTML• CSS• React• Vue | Basic
Proficient
Proficient
Basic |
| • Scripting | <ul style="list-style-type: none">• Python• JavaScript | Intermediate
Proficient |
| • Database | <ul style="list-style-type: none">• MySQL DBMS• SQL• PostgreSQL• Firebase | Intermediate
Intermediate
Intermediate
Proficient |
| • Operating Systems | <ul style="list-style-type: none">• Linux• Windows 8, 10 | Basic
Basic |
| • DevOps | <ul style="list-style-type: none">• Jenkins• Microsoft Azure• Heroku | Basic
Basic
Basic |
| • Testing | <ul style="list-style-type: none">• Sinon.js, Chai.js, Mocha.js• JUnit (Java) | Intermediate
Intermediate |

Language Proficiency

- | | | |
|-----------|--|----------------------------|
| • Spoken | <ul style="list-style-type: none">• English• Mandarin• Hokkien (Dialect) | Fluent
Fluent
Fluent |
| • Written | <ul style="list-style-type: none">• English• Chinese | Competent
Competent |

Additional Information

- External endeavors
 - Part of the Programs committee of Residential College 4 (student hostel). Planned events crucial to the integration of residents into the House of Aquila (Floors 3-5), which also served to facilitate interpersonal bonding between residents. Spearheaded the planning and logistics of a dinner event that involved at least 100 participants.
 - Part of the logistics organizing committee of the Residential College 4 Orientation Camp event. In charge of obtaining and distributing logistics to ensure smooth execution of events and programmes.
 - Orientation Group Leader for the Freshmen Orientation Camp event for School of Computing, National University of Singapore. Requires excellent interpersonal skills and responsibility to break social barriers, orientate the freshmen of NUS and resolve their doubts as to what university has to offer them
- Interests
 - Ardent weightlifter. Goes to the gym at least thrice a week.
 - Tech savvy. Reads Medium articles frequently to find out the latest technological trends, especially in the field of software engineering and programming
 - Watching science fiction films, especially those touching on the topic of time travel. Favourite movie would be Predestination.
 - Fan of big dogs, particularly Samoyeds and Golden Retrievers

APPENDIX A

Degree: Bachelor of Computing (Honours) in Computer Science

Cumulative Average Point: 4.43/5.00

Type	Year	Level	Course Description	Grades
Programming	Jan – Jun 2017	Year 1 / Special Term	Programming Methodology I	A-
	Jan – May 2018	Year 1 / Semester 2	Data Structures and Algorithms	B-
Software Engineering and Design	Aug – Dec 2017	Year 1 / Semester 1	Programming Methodology II	A
	Aug – Dec 2018	Year 2 / Semester 1	Software Engineering	In-progress
Logic and Mathematics	Aug – Dec 2017	Year 1 / Semester 1	Calculus for Computing	A
	Aug – Dec 2017	Year 1 / Semester 1	Discrete Structures	S
	Jan – May 2018	Year 1 / Semester 2	Linear Algebra I	A+
Computer Science Concepts	Jan – May 2018	Year 1 / Semester 2	Computer Organization	A-
	Aug – Dec 2018	Year 2 / Semester 1	Introduction to Computer Networks	In-progress
	Aug -Dec 2018	Year 2 / Semester 1	Introduction to Operating Systems	In-progress
	Aug – Dec 2018	Year 2 / Semester 1	Database Systems	In-progress
Miscellaneous	Aug – Dec 2017	Year 1 / Semester 1	Quantitative Reasoning	S
	Aug – Dec 2017	Year 1 / Semester 1	Thinking in Systems: Ecosystems and Natural Resources	CS
	Jan – May 2018	Year 1 / Semester 2	IS Innovations in Organizations and Society	S
	Jan – May 2018	Year 1 / Semester 2	Infection Diseases: Dynamics, Strategies and Policies	B+
	Jan – May 2018	Year 1 / Semester 2	The Detective	S
	Aug – Dec 2018	Year 2 / Semester 2	Effective Communication for Computing Professionals	In-progress

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



StaffAny Private Limited

22 August 2018

Letter of Recommendation for Winson Heng Yong Seng

To Whom This May Concern,

It is my pleasure to write this letter of recommendation for Winson. Winson was a Software Engineer Intern with us from 18 May 2018 to 10 August 2018. He was a full stack developer working on the Staffany application on React Native and the NodeJS backend.

Passionate in entrepreneurship, Winson expressed interest in an internship when I asked for volunteers at a talk. At StaffAny, Winson picked up our technology quickly despite it being his first real engineering internship. His reliability and willingness to pore over documentation and learn was something we appreciated immensely. He could often be left to troubleshoot a significant problem and be depended upon to find and implement a solution independently. Winson also had an ability to output quality code at a very fast pace that was a loss we keenly felt when he left, especially as an output-driven startup with a keen focus on deadlines.

He has shown keen interest in entrepreneurship by taking the initiative to interact with me and the other cofounders and understanding the operations and needs of the company. Winson has expressed to me his desire to continue working in startups and engineering in general, and I hope he continues to achieve stunning results wherever he goes.

If you have any other questions, please feel free to contact me at jeremy@staffany.com

Yours sincerely

Jeremy Hon
CTO
StaffAny