

## Jaron Jin Jia CHAN

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Online Resume/Portfolio: <http://www.jaronchan.me/>



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## Personal Statement

### About Me

I am Jaron Chan, a second-year Computer Science undergraduate from the National University of Singapore (NUS), born and raised in Singapore with a passion for impacting the lives of those around me. With skills in front-end programming, UI/UX design and operational research I am keen on making that impact by pursuing careers in Software Engineering, Product Management and/or User Experience. Admittedly, my computing journey started rather late. It was my foray into software development during a university module where I, in a team, had to not only brainstorm new products, conduct user interviews and design prototypes, but in addition, develop fully functioning applications (every four weeks) that ignited my computing aspirations. Through code, I was able to materialise my ideas and designs at my fingertips. As if suddenly enlightened, I saw not only a future but also purpose through computing and product development. Thus, at the end of 2017, I took a big risk to change my major from Industrial and Systems Engineering to Computer Science. I believe in giving back to the community as I had once received. Growing up in a lower-income household, I would have never thought that I will have the opportunities that I do today. In my free time, I helm 'Connect Tuition' a pro bono education programme for underprivileged children in hopes of enabling them towards a brighter future. Beyond volunteering, it is with conviction that I seek to harness my technical abilities to benefit society as I pursue a career in digital product development.

### Work Experience

One of my more notable working experiences will be that of my stint as a Front-End Development Intern at data-analytics and office management IoT start-up, ProSpace Analytics. Over the course of one month of full-time and two months of part-time work, I first built a whole new client-facing website for lead-generation and on-boarding, and then, contributed to the development of an internal content management system (CMS) web-application built on MERN stack (MongoDB, Express, React, NodeJS). It is at this start-up where I was first introduced to real-world software development practices and software design principles. Having already been skilled in HTML, CSS and jQuery, my first task was straight-forward. However, out of self-determination and tenacity, I wanted to contribute to the start-up more than what was required; having consulted my mentor about these aims, I proposed if I could build the website on ReactJS – the framework used for the majority of the start-up's projects. Within weeks, I had not only learnt React/Redux on my own and built the website, I also proved myself worthy to contribute to larger projects. It was then that I was offered to work part-time with the company while continuing my studies. In the process, I learnt the importance of drive, adaptability, passion and speed of learning and adjusted well to the close-knit start-up culture. Now, I possess a burning passion to contribute to the start-up world.

### Strengths and Weaknesses

**Curious and Engaged:** I find myself always seeking out perspectives and knowledge be it in computing, philosophy, art, etc. This has allowed me to develop a nuanced position on issues and grant me the capacity of an innovator and an active contributor in team projects. I never shy away from learning and experiencing new skills at any chance I get; always willing to put in the effort to learn.

**Adaptable and Observant:** I grew up being able to pick up on minute details and being quick on my feet. I adjust quickly to situations, tying in the bigger picture, stepping up to take on responsibilities and/or to point out different perspectives and solutions if required.

**Self-Conscious but Self-Aware:** Being very socially observant has a double-edged sword of being highly-sensitive to the words of others. I live my life putting others before myself, and while I received many thanks, I gave in to the negativity of a selected few. Thus, for many years, my self-worth had hinged on what people said. Today, I am progressively taking pride in and valuing my strengths and genuineness as my worthiness in the world.

### How I Hope to Contribute

As a hard-worker who is highly motivated, willing to learn, and capable of adapting to challenging new environments, I want to be of an asset even as an intern. I possess a unique blend of technical, design and social skills that are advantageous in a start-up environment. More than just seeking a working experience, I will not just commit to the job, rather, I will believe in it. I firmly believe that by contributing to the burning technopreneurial spirits of start-ups, together, we will make an impact on society.

## Education

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Aug 2016 - Present	<b>National University of Singapore</b> Bachelor of Computing (Honours) in Computer Science (Course details in <b>Appendix A</b> )	Singapore
Aug 2016 - Present	<b>National University of Singapore</b> University Scholars Programme (USP) <ul style="list-style-type: none"><li>An interdisciplinary Honours programme, from a select 3% from each cohort in NUS, that focuses on strengthening core professional skills through intellectual breadth and depth, learning new things beyond their specialization that enables them to analyse and integrate multidisciplinary knowledge in their problem-solving</li></ul>	Singapore
Jan 2012 - Dec 2013	<b>St. Andrew's Junior College</b> Singapore-Cambridge General Certificate of Education Advanced Levels	Singapore

## Work Experience

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Dec 2017 - Feb 2018	<b>ProSpace Analytics</b> <i>Front-End Development Intern</i> <ul style="list-style-type: none"><li>Built and developed a new client-facing company website for lead generation and on-boarding using ReactJS, HTML, CSS</li><li>Contributed notably to the development of internal Content Management System built on MERN stack (MongoDB, Express, ReactJS/Redux, NodeJS) for deployment of hardware IoT devices</li></ul>	Singapore
May 2015 - Mar 2016	<b>Singapore Armed Forces (SAF), HQ ARMCEG</b> <i>3<sup>rd</sup> SGT Bridging Engineer Specialist, Active Fleet Management Centre</i> <ul style="list-style-type: none"><li>National Service commander-in-charge of daily operations</li><li>Main liaison between National Service personnel and SAF instructors</li></ul>	Singapore
Jan 2014 - Apr 2014	<b>Ministry of Transport, Singapore</b> <i>International Relations Assistant (Temp), IRS Division</i> <ul style="list-style-type: none"><li>Heavily involved in the execution of major international events such as the Singapore Airshow 2014 and assisted the Chief Liaison Officer in meeting the demands of high-profile foreign dignitaries</li></ul>	Singapore

## Scholastic Achievements/Extracurricular Activities

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Nov 2017	<b>11<sup>th</sup> School of Computing Term Project Showcase (STePs)</b> <i>1<sup>st</sup> Place Winner, Software Product Development for Digital Markets</i> <ul style="list-style-type: none"><li>Developed and designed 'HunQRy: Orders Made Fast', a web application that allows a seamless F&amp;B ordering experience of browsing, combining and paying with friends on an all-in-one platform</li><li>Took on role of UI/UX Designer; Marketing Manager and contributed to Front-End development</li></ul>	Singapore
Aug 2017 - Present	<b>University Scholars Programme (USP) Honour Roll</b>	Singapore
Aug 2017 - Present	<b>Connect Tuition, Singapore</b> <i>Co-Director; Vice-Director (former); Events, Publicity and Recruitment Coordinator (former)</i> <ul style="list-style-type: none"><li>Current Co-Director of 'Connect Tuition', a pro bono community engagement mentoring and tuition university student-run project running weekly sessions benefiting youths from low-income families</li></ul>	Singapore

Aug 2016 - Jul 2017	<b>Ngee Ann Kongsi Scholarship</b>	Singapore
	<ul style="list-style-type: none"> <li>Awarded as a NUS Freshmen for academic excellence and contributions to the community</li> </ul>	
Aug 2016 – Jul 2017	<b>University Scholars Club, National University of Singapore</b> <i>House Captain (Triton House); USP Ambassador</i>	Singapore
	<ul style="list-style-type: none"> <li>Elected as the 6<sup>th</sup> House Captain of 'Triton' as leader of House activities ranging from weekly bonding activities to freshmen orientation</li> <li>Brand ambassador of USP</li> </ul>	
Jan 2012 - Dec 2013	<b>St. Andrew's Junior College</b>	Singapore
	<ul style="list-style-type: none"> <li>Awarded the Wong Kai Seng Scholarship</li> <li>Science Scholarship Development Programme</li> <li>Choir Vice-President; Class Representative</li> </ul>	

## Skill Sets & Proficiency

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<b>Programming</b>	Java C C++ Shell Scripting	Proficient Intermediate Intermediate Basic
<b>Web Development</b>	HTML, CSS, SCSS, Bootstrap JavaScript, jQuery, AJAX ReactJS + Redux NodeJS Devops (Digital Ocean, AWS)	Proficient Proficient Intermediate Basic Basic
<b>UI/UX Design and Multimedia</b>	Sketch + InvisionApp Adobe Photoshop Adobe Experience Adobe Premiere Pro Adobe Illustrator	Proficient Proficient Intermediate Intermediate Intermediate
<b>GUI Development</b>	JavaFX, XML	Intermediate
<b>Mobile Development</b>	React Native Android	Basic Basic
<b>Version Control</b>	Git (Command Line, SourceTree)	Intermediate
<b>Office Productivity</b>	Microsoft Word, PowerPoint, Excel, Outlook	Proficient
<b>Statistical Tools</b>	Stella Architect, iThink, @Risk	Intermediate
<b>Non-Technical Skills</b>	Writing/Publications Presentation Project Management Surveying/Data-Collection	Proficient Proficient Intermediate Intermediate

## Language Proficiency

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<b>Spoken</b>	English – fluent; Mandarin – average
<b>Written</b>	English – competent; Chinese – basic

## Additional Information

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Other activities/interests	Volunteerism, Singing and Cooking Computers, Technology, Design, International News, Philosophy, Human Rights Travelling, Swimming, Running, Outdoors, Water Sports
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**Degree:** Bachelor of Computing (Honours) in Computer Science with Minor in Systems Engineering  
**Cumulative Average Point: 4.39 / 5.00**

Year	Level	Course Description	Grades
Aug – Nov 2016	Year 1/Semester 1*	Introduction to Statistics	A
		Programming Methodology	A-
		Quantitative Reasoning	A-
		Writing & Critical Thinking: Multidisciplinary Perspectives of the 'Mind'	A-
		Mathematics I	S
Jan – May 2017	Year 1/Semester 2	Quantitative Reasoning Foundation: Quantifying Our Eco-Footprint	A
		Computational Thinking and Modelling	A-
		Welcome to The Anthropocene: Agency in the Era of Climate Change	A-
		Probability	B
		Engineering Economy	S
		Mathematics II	S
		University Scholars Seminar	CS
Aug – Nov 2017	Year 2/Semester 1	Introduction to Systems Thinking	A
		Software Product Engineering for Digital Markets #	A-
		Data Structures and Algorithms I	A-
		Discrete Structures	B+
		Energy in Singapore: Is Technology the Answer?	B+
		Operations Research I	B
Jan – May 2018	Year 2/Semester 2**	Data Structure and Algorithms II	IP
		Computer Organisation	IP
		Software Engineering ###	IP
		Computer Networks	IP
		Singapore Studies: Nationalism and the Arts	IP

# The **Software Product Engineering for Digital Markets** is an intense module where students are tasked to build multiple web applications over a semester. I was one of the select few of 35 students chosen through a scrutinising application process. Each project required forming different teams of either size of three or four, producing a total of four web application assignments, including a Facebook app, a seminar, a mobile web app and a final project. For each assignment, students have to make sure of the business aspect and the UI/UX of the app we are building and especially for the final project where we must release the app and get real user feedback. Some works created during the module were an event sponsorship platform, a purely web-based public transport tracker that utilises government transport data with Google Map APIs to push notifications of bus arrival and proximity to the destination and lastly, the award-winning all-in-one F&B ordering platform.

### The **Software Engineering (SE)** module sought to impart good SE practices and amalgamated to a project focusing on the design and implementation of an advanced address book application while following SE process and practices. My group developed with social workers in mind as our target user. We designed an application with features that assist them in keeping track of their visitations with beneficiaries such as calendar, navigation, session loggers and daily scheduler. Our software was built using Java. I headed the development of the GUI and navigation and daily scheduler features.

\* **Majored in Industrial and Systems Engineering**

\*\* **Officially changed Major to Computer Science**

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#### 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