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## Personal Statement

### Background

When I became a developer 4 years ago, the motivation was to be able to invent and innovate as an individual without funding. I took a step to build a mobile game while I was conscripted, both to finance my university tuition fees as well as to explore coding for the first time.

This eventually landed me a full-time job the moment I left the army as a software engineer at BestTours, an in-bound tourism service provider in Singapore. During which, I implemented many features for the company's B2C website and Admin portal while also working with an outsource team. I've also developed a customer facing application on standalone Touchscreen Kiosks. Deployed in 9 different hotels, they establish an alternate revenue source as opposed to online customer acquisition. The technologies I utilized JQuery, HTML, CSS, PHP and MySQL. I've also introduced BitBucket as version control.

This experience helped grow me significantly as I worked closely with my then boss and learned a lot about software development methodologies and how it was like to work in a start-up.

I also saw a need for digital solutions in Singapore's budding companies and sought out to provide for them. Thus, I started my own company, Web Igniter, 5 months after working in my first job. The experience gave me insight to how important a well-established business model is for business to succeed. During this time, I've also worked on technologies like Firebase, React-Native, WordPress, PHP and Android Studio for the numerous client projects such as a mobile chat application. However, I had to cease operation not long after opening however, as school started and I wanted to pay more attention on my academics.

During my time in school, while I worked hard on my modules, I've also worked on projects outside the curriculum. One such project was Capulator, where I aimed to provide a one-stop platform for students to forecast and plan their modules to achieve a desired CAP (GPA). I used Laravel with PHP and MySQL for this. Furthermore, I've worked extensively with Angular, JSF, JSP, Java EE and NodeJS for my other school projects and often served as tech lead.

During my recent internship in DNV GL, I worked with a mixture of international and local team on an application that utilized Angular, Mongo Express (Docker) and ASP.NET Core with Solidity blockchain technology. Working in a large MNC taught good technical practices and important team processes for project management. I was also sent to Shanghai, China for 1 month where I was the main developer, mentoring another intern who was in year 4. We conceptualized many ideas, and worked with one that benefitted the business there. Within 2 weeks, a MVP web and mobile application with ASP.NET backend, cosmoDB, Mongo Express (Docker), Ionic and Angular framework was developed and demonstrated.

### How I will contribute

In all my previous roles, I implemented real-world solutions for my companies that both generate more profit or simplify and automate existing business processes. With my hunger and openness to learning, desire to strive, I will be able to contribute to your company in more ways than one. I am also very open to learning emerging technologies such as Machine Learning, Fintech and will be able to contribute in aspects that I may not have acquired skill in right now. For each of my internships, I've worked with technologies that I have not encountered before previously. I simply learn what's required and confidently deliver.

## Education

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Aug 2017 - Present	<b>National University of Singapore</b> Bachelor of Computing (Honours) in Information Systems (Course details in Appendix A)	Singapore
Jan 2012 - Dec 2014	<b>Millennia Institute</b> <ul style="list-style-type: none"><li>• Singapore-Cambridge General Certificate of Education Advanced Level</li><li>• Subjects: Physics, Chemistry, Economics, Mathematics General Paper, Project Work</li></ul>	Singapore

## Work Experience

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May 2019 –Aug 2019	<b>DNV GL</b> <i>Software Developer</i> <ul style="list-style-type: none"><li>• Full stack development with ASP.NET core backend, MongoDB, Solidity Ethereum Blockchain smart contracts and Angular framework with Microsoft Azure Services</li><li>• Completed Pre-Alpha Demonstration to clients like Keppel within a month</li><li>• Worked with international and local team with weekly stand-ups</li></ul>	Singapore
Jun 2019 – Jul 2019	<b>DNV GL</b> <i>Software Developer</i> <ul style="list-style-type: none"><li>• 1-month stint in Shanghai in a start-up like environment, performing ideation and subsequently development of MVP, built with Ionic and Angular framework, with ASP.NET core utilizing docker contained Mongo Express locally and CosmoDB on Azure</li><li>• Successfully delivered product while leading team as main developer in Shanghai</li></ul>	Shanghai, China
May 2017 – Sep 2017	<b>Web Igniter Private Limited</b> <i>Sales &amp; Developer</i> <ul style="list-style-type: none"><li>• Designed and developed multiple applications including real-time chat, queuing system and websites based on client's requirements</li><li>• Product tech stack included React-Native with Firebase for real time data, HTML CSS JQuery for static websites, WordPress for low-budget CMS projects</li><li>• Completed several quotations and business requirement document for clients with milestone checks</li><li>• Acquired clients for the company</li></ul>	Singapore
Dec 2016 – Jun 2017	<b>BestTours Private Limited</b> <i>Software Developer</i> <ul style="list-style-type: none"><li>• Developed web-based HTML, PHP and SQL based POS kiosk system with deployment of the new hardware at 9 different hotels</li><li>• Improved efficiency of transactions by replacing them with e-payment methods such as Swipe/PayPal and E-Tickets</li><li>• Modernized customer interface and business processes by introducing many new use cases to overall system such as i18n, interactive media for each product, Google Maps Directions and Geocoding etc</li><li>• Overhaul of database with normalization for future-proofing and decoupling of data</li><li>• Engaged in content creation on the side and participated in networking events with Resort World Sentosa and Wildlife Reserve Singapore representing the company</li></ul>	Singapore

## Scholastic Achievements/Extracurricular Activities

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Sep 2019	<b>Innovation &amp; Entrepreneurship Practicum Award 2019</b> SGD 10,000 award grant given to teams with an innovative idea each semester.  <i>Project summary:</i> A marketplace for researchers to connect with participants with our in-house matching algorithm, users would only view gigs that are relevant to them without having to spend extra time evaluating whether they qualify	Singapore
May 2019	<b>Maritime Port Authority of Singapore Global Internship Award</b> An exclusive award given to student, providing opportunities for an overseas stint with key players in the maritime industry	Singapore
April 2019	<b>School of Computing Term Project Showcase 1<sup>st</sup> Runner up</b> An award given for outstanding performance in an enterprise project module where we created a recipe and ingredients delivery system, combined with B2C website, admin portal and backend.	Singapore
Aug 2018	<b>Orbital (Independent software development project) - Apollo</b> Highest level of achievement (Apollo) attained. Project aimed at general student population with market analysis showing interest in the product.	Singapore

## Skill Sets & Proficiency

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<b>Programming</b>	Java, C#, JavaScript, TypeScript Python, C, PHP, Solidity	Proficient Basic
<b>Web</b>	HTML, CSS, JSP JSF technology, JQuery, Angular Ionic, Laravel, Component suite, Wordpress Sass, React	Proficient Proficient Basic
<b>Backend</b>	NodeJS with Express, ASP.NET Core, Java EE	Proficient
<b>Database</b>	SQL, DBMS, MongoDB, CosmosDB, JPQL Firebase	Proficient Basic
<b>Mobile</b>	Ionic Android Studio React-Native	Proficient Intermediate Basic
<b>Game Engine</b>	Unity	Intermediate
<b>Additional Technical Knowledge</b>	Blockchain Genetic Algorithm	Proficient Basic
<b>Smart Contract Framework</b>	HyperLedger	Proficient
<b>DevOps</b>	Microsoft Azure AWS	Intermediate Basic
<b>Tools</b>	Postman, Git & Github, Bash, BitBucket, NetBeans Bash, Swagger, Docker, Filezilla	Proficient Intermediate

	InVision	Basic
<b>Markup</b>	XML	Basic
<b>Server</b>	GlassFish, Apache, MySQL	Basic
<b>Server Management &amp; Network</b>	Hosting Setup/Maintenance, Networking	Intermediate
<b>Security</b>	High-level layer security	Intermediate
<b>Operating Systems</b>	Linux	Basic
<b>Hardware Design</b>	Basic logic gates	Basic
<b>Computer Architecture</b>	MIPS	Basic
<b>Non-technical Skills</b>	Project Management, Communication Copywriting	Intermediate Basic
<b>Multimedia</b>	Adobe Photoshop CC, Audacity	Intermediate
<b>Office Productivity</b>	Microsoft Word, PowerPoint, Project Microsoft Excel	Proficient Intermediate

## Language Proficiency

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

## Additional Information

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Other activities/interests	<p>Being very open to new experiences, my interest is to explore different activities and learning new things. I believe that being strong in my trade and having knowledge in other areas will allow me to be insightful when presented with a scenario and catch opportunities better</p> <p>As for technical abilities, I do my best to find time to explore interesting technologies and learn their concepts through YouTube and practice them, just as how I started learning to program in the first place.</p> <p>In my free time, I practice the Piano through YouTube tutorials and can play several pieces (albeit not technically strong)</p> <p>I also work out a lot to keep up with appearance and gain confidence</p> <p>For a year, I've joined Muay Thai to gain an ability to defend myself as well as recreational purpose</p>
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**Degree:** Bachelor of Computing (Honours) in Computer Engineering  
**Cumulative Average Point: 4.42 / 5.00**

Year	Level	Course Description	Grades
Aug – Nov 2017	Year 1/Semester 1	Programming Methodology	A+
		Professional and Academic Communication	IP*
		Understanding and Critiquing Sustainability	IP*
		Quantitative Reasoning	A
		Information Systems Innovations In Organizations and Societies	A-
		Calculus for Computing	A-
		Workplace Readiness	IP*
Jan – May 2018	Year 1/Semester 2	Data Structures and Algorithms I	B+
		Computer Organisation	B
		Discrete Structures	B+
		Roots and Wings – Personal and Interpersonal effectiveness 1.0	CS
		Natural Heritage of Singapore	A-
		Professional and Academic Communication	A-
		Understanding and Critiquing Sustainability	B+
		Workplace Readiness	CS
		Probability and Statistics	B
Aug – Nov 2018	Year 2/Semester 1	Database Systems	B+
		Darwin and Evolution	A
		Journey of the Innovator	CS
		Independent Software Development Project (Orbital)	CS
		Enterprise Systems Architecture and Design	B+
		Enterprise Systems Server-Side Design and Development	A-
Jan – May 2019	Year 2/Semester 2	Introduction to Computer Networks	B+
		Food and Health	A
		Information Systems Leadership and Communication	A
		Enterprise Systems Interface Design and Development	A+
		Blockchain and Distributed Ledger Technologies	A-
Aug – Nov 2019	Year 3/Semester 1	IT Project Management	In-progress
		Information Systems Capstone Project	In-progress
		Information Technologies in Financial Services	In-progress
		Principles of Economics	In-progress

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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