

## Zayn Yuan ZHUANG

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Personal Website: <https://za-yn.github.io/Resume/>



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## Personal Statement

### Internship Objectives

- 1) Understand the startup ecosystem, the practices involved, and the directions taken
- 2) Experience new perspectives, innovation and implementing ideas
- 3) Meet professional role models and potential mentors who can provide guidance, feedback, and support
- 4) Understand ways to develop products in both the business and technical aspect.

### About Me

My given name is Zhuang Yuan, but please call me Zayn. I am a firm believer that innovation is the way to effectively solve the world's problems. Being a future computer engineer, my area of interest includes Augmented Reality (AR) and Computer Vision. I explore my interests in these fields by dabbling in mobile application development to solve problems that I encounter. During the summer of my junior year in University, I developed a prototype AR app to make furniture shopping easier for homeowners. Being mostly a front-end application only, I pitched the idea well enough to be voted the top three best project in the School of Computing in my university. Now, I successfully attained a grant from the school to further my idea into a start-up and am collaborating with a furniture company to digitize their furniture in my next iteration of development.

### Strengths and Weaknesses

Some of my strengths are:

1. I strongly believe in spending the time to find sustainable, rather than immediately effective, solutions to problems I face. I believe this is greatly beneficial to keep a new company lean and competitive. Having taken on the role of a market research analyst for a local cloud service provider start-up, I utilized an algorithm to acquire competitor data automatically from online sources, reducing unnecessary labor costs in the long run.
2. Being the leader of my start-up, I have learned to handle a multitude of things at once in a composed and effective fashion. I take on many roles in both business and technical development. When mistakes happen, I prioritize remedying the situation above evaluating the fault because I value the growth of the company most.
3. Given the above experience, I have learned to manage relationships well with my cofounders and partners. In addition, taking interests in a variety of subjects, I am a keen learner and I love to discuss interesting topics with anyone anywhere.

That said, one weakness that I have is my lack of experience in other areas that I have yet to explore. However, I am confident of my learning abilities and will always do my best to be an effective team player.

Elon Musk said: "Engineering is the closest thing to magic that exists in the real world." He is right because it takes innovation and entrepreneurship for something truly magical to happen. As an aspiring computer engineer, I aim to touch as many lives as I can. I firmly believe that engineering is the furnace in which innovation is forged into products, and entrepreneurship is the incubator that brings the innovation to the world. Bringing an idea to the world, that is what magic is to me.

### Unique Skill Sets

1. Able to multi-task and adapt well to different roles.
2. Keeping composure and prioritizing tasks during stressful situations.
3. Able to work effectively in a team in terms of communication, conflict resolution and facilitation.

## How I Can Contribute

With background in software engineering (Object-Oriented Programming), I aim to help your company develop and release a core feature in whatever aspect you may require. I am confident of my learning abilities and adaptability to different roles. I am passionate about innovation, and love to brainstorm and develop new solutions and to challenges that I face.

As an avid learner with a passion for technology, I constantly strive to improve my arsenal of skills. With my technical background, I will do my best to apply my knowledge to my field of work. and as an effective team player and communicator, I aim to work closely with you and your team. I am incredibly excited to start working with you.

Attached below is my resume for your perusal.

## Education

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Aug 2017 - Present	<b>National University of Singapore</b> Bachelor of Engineering (Honors) in Computer Engineering (Course details in Appendix A)	Singapore
Aug 2017 - Present	<b>National University of Singapore</b> University Town College Program (UTCP) (Course details in Appendix A)	Singapore
Jan 2013 - Dec 2014	<b>Meridian Junior College</b> <ul style="list-style-type: none"><li>• Singapore-Cambridge General Certificate of Education Advanced Level: BBB/A (80/90 Rank Points)</li><li>• Subjects: Physics, Chemistry, Mathematics, Economics</li></ul>	Singapore

## Work Experience

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Oct 2018 – Present	<b>Home Sweet Home</b> <i>Founder and CEO</i> Home Sweet Home, a start-up founded in September 2018, is an android mobile application online store that introduces Augmented Reality (AR) technology for customers buying furniture for their house, by projecting a realistic model of the furniture of their choice onto their space through the phone's camera. <ul style="list-style-type: none"><li>• Managing business and technical development of the application</li><li>• Attained a \$10000 grant from NUS School of Computing</li><li>• Market validation of features</li></ul>	Singapore
Sept 2018 – Jan 2019	<b>STT Connect Holdings Pte. Ltd.</b> <i>Market Research Consultant (Sales Department)</i> STT Connect is the first MTCS SS 584 Level 3 certified OpenStack cloud provider in Singapore. STT Connect offers the vital building blocks of cloud platforms and services to tailor the best solution to meet business' unique needs. <ul style="list-style-type: none"><li>• Advised sales team on product pricing by doing a comprehensive market analysis of competitors' products</li><li>• Learnt how to systematically analyze and assess competitiveness in a start-up</li></ul>	Singapore
Jan 2017 – Present	<b>Febzwell International Trading Pte. Ltd.</b> <i>Web Developer</i> An established local curtain brand selling ready-made curtains. The company plans to expand operations into the ecommerce world away from brick and mortar. <ul style="list-style-type: none"><li>• Designed an ecommerce website using the Shopify platform</li><li>• Learnt about basic webpage design, as well as product management</li></ul>	Singapore

## Scholastic Achievements/Extracurricular Activities

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May 2018 – Aug 2018	<b>Orbital (Apollo Category) Honorable Mention Award 2018</b> Orbital provides a platform for students to gain hands-on industrial experience for computing technologies related to students' own interests. Done in pairs of two, Orbital students propose, design, execute, implement and market their project to peers and faculty. Peer assessment and critique of others' projects are key components of the modules' deliverables. I developed an AR app for furniture consumer and after pitching to my peers got voted the top 3 best project among hundreds of other teams.	Singapore
Oct 2018 – Oct 2019	<b>I&amp;E@SoC (October 2018)</b> Innovation and Enterprise Practicum is a SGD10,000 grant awarded to students who have an innovative idea to turn it into a start-up over a year long period.	Singapore
Aug 2017 – Aug 2018	<b>Extra-Curricular Activities</b> <ul style="list-style-type: none"> <li>• Member of the NUS Archery Club</li> <li>• Asian Undergraduate Summit 2018 Facilitator</li> </ul> The Asian Undergraduate Summit brings together students from universities from around the region for a week-long conference where they get exposed to design thinking to devise solutions to help alleviate certain social problems in Singapore or their home country. <ul style="list-style-type: none"> <li>• IEEE-NUS Hackathon</li> </ul>	Singapore
Jun 2013 – Present	<b>Community Involvement Activities</b> <ul style="list-style-type: none"> <li>• The Yellow Ribbon Fund Raising Event</li> </ul> The Yellow Ribbon Project (YRP) seeks to engage the community in giving ex-offenders a second chance at life and to inspire a ripple effect of concerted community action to support ex-offenders and their families.	Singapore
Jan 2013 – Dec 2014	<b>Meridian Junior College</b> <ul style="list-style-type: none"> <li>• Member of the Meridian Archery Club</li> <li>• SSCC Colours Award 2014</li> </ul> The SSCC Colours Award is an award for individuals who Represented Singapore Schools Sports Team1 or achieved top 4 in individual/ team/ division at the National School Games. We managed to come in as second runner up for	Singapore

## Skill Sets & Proficiency

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<b>Coding</b>	C, C++ Java	Proficient Proficient
<b>Front-end</b>	Reactjs React Native Markdown	Intermediate Intermediate Intermediate
<b>Back-end</b>	MongoDB Google Cloud Platform AWS S3	Basic Basic Basic
<b>Spreadsheet</b>	Google Scripts	Basic
<b>Hardware Design</b>	VHDL, Circuit design	Intermediate
<b>Soft Skills</b>	Leadership Project Management Design Thinking Public Speaking	Proficient Intermediate Basic Basic

## Language Proficiency

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

**Degree:** Bachelor of Engineering (Honours) in Computer Engineering

Year	Level	Course Description	Grades
Aug – Dec 2017	Core	Engineering Principles and Practice I	S
	Core	Programming Methodology	S
	Core	Engineering Calculus	S
	Core	Differential Equations for Engineering	S
	Elective	English for Academic Purposes	B+
	UTCP *	Junior Seminar: The Darwinian Revolution	CS
Jan – May 2018	Core	Engineering Principles and Practice II	B+
	Core	Data Structures and Algorithms	B-
	Core	Digital Design	B
	Core	Linear Algebra for engineering	B
	UTCP	Public Persona and Self-Presentations	B+
Aug – Dec 2018	Core	Transistor-level Digital Circuits	B
	Core	Computer Organization	B
	Core	Independent Software Development Project (Orbital)	CS
	Core	Effective Communication for Computing Professionals	A-
	Core	Software Engineering & Object-Oriented Programming #	C+
	Elective	Quantitative Reasoning	A-
	UTCP	Senior Seminar: Negotiating in a Complex World	S
	UTCP	Nobodiness: The Self as a Story	B+
Jan – May 2019	Core	Signals and Systems	In Progress
	Core	Real-Time Operating Systems	In Progress
	Core	Discrete Structures	In Progress
	Core	Probability and Statistics	In Progress
	UTCP	Intelligence and Singapore Society	In Progress

\* The University Town College Programme (UTCP) is a programme offering a more coherent delivery of general education, the UTCP emphasizes multidisciplinary learning and active small-group learning. Students from different disciplines, cultures, and nationalities are put together in each class, which helps them to assimilate and synthesize cross-disciplinary knowledge, facilitating multi-perspectival thinking. Through its multidisciplinary curriculum, the UTCP will help students develop effective communications and strong writing skills, critical thinking skills, and intellectual breadth and rigor to tackle the complex, inter-related challenges confronting the world today. A host of informal learning activities, such as talks by distinguished visitors, as well as social and sporting activities, complements the formal curriculum.

# This module introduces the necessary skills for systematic and rigorous development of software systems. It covers requirements, design, implementation, quality assurance, and project management aspects of small-to-medium size multi-person software projects. The module uses the Object-Oriented Programming paradigm. The grades that I received is not indicative of my actual ability and is due to other circumstances.

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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