

Siddharth Madhavan

Bachelors in Engineering (Honours), Computer Engineering
National University of Singapore (NUS)



About Me

I have a deep interest and aspiration to be a versatile computer engineer, both in the realms of hardware and software. My education and personal pursuits have equipped me with a vast array of skills and experience, and I now intend to apply those talents to make a meaningful impact at the workplace and beyond.

As a software engineer in *PayBoy*, a Human Resource management start-up, I concurrently played the role of a front-end and back-end developer. This internship piqued my interest in creating value and starting my own venture, but it was only when I represented the company in Echelon Asia Summit 2017 that I realized a start-up is the best place to shoulder more responsibilities and utilize innovative thinking to achieve success.

I have also been blessed with tremendous opportunities to be involved in multiple projects in school. Some notable mentions are *Directory of Contacts (DoC)* which required me to work with 10 thousand lines of code to develop a command line interface application and *Winclos* which pushed me to learn *React Native* in a short span of 24 hours to build up an android application.

With brilliant innovators, rich venture capitalists and amazing discoveries that are turning Toronto into the world's next great tech superpower, I am aspiring for an opportunity to work in a start-up with pioneering mindset people where I can learn more strategies and significantly contribute towards their growth.

Education

Aug 2016 - Present	National University of Singapore Bachelor of Engineering (Honours) in Computer Engineering Cumulative Average Point: 4.32 / 5.00 <ul style="list-style-type: none">Enrolled in Innovation and Design Centric Pathway, which focuses on the collaboration between engineering students from various disciplines to ideate and create products to solve real world problems.	Singapore
Jan 2012 - Nov 2013	Jurong Junior College <ul style="list-style-type: none">Singapore-Cambridge Certificate of Education (Advanced Level)Subjects: Physics, Chemistry, Mathematics, Economics	Singapore

Work Experience

Jun 2017 - Oct 2017	PayBoy Private Limited <i>Software Engineering Intern</i> <ul style="list-style-type: none">Worked on integrating APIs, adding new and updating existing features with the use of Ruby on Rails, Vue JS and Vanilla JS.Wrote tests to check the credibility of the program using RSpec.Represented the company at the Echelon Asia Summit 2017.	Singapore
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May 2014 - Mar 2016

Singapore Armed Forces
3rd Sergeant (Supply Chain)

Singapore

- Displayed exceptional leadership quality and was chosen to become a Sergeant in the Singapore Armed Forces.
- Received the Silver Bayonet, awarded to the top 10% of the cohort based on leadership, fitness and other criteria.
- In-Charge of training, discipline and welfare of about 60 soldiers.

Scholastic Achievements/Extracurricular Activities

Aug 2017 – Present

Indian Cultural Society (ICS)

Singapore

- In-Charge of teaching single parent / under-privileged kids as a part of ICS's initiative.

Jun 2017 – Jul 2017

Sangae Muzhangu (Theatre)

Singapore

- Acted in a student run theatre production, where I not only picked up theatre skills, but also solidified existing skills such as teamwork, leadership and clear communication.

Jan 2017 – Nov 2017

Innovation and Design Programme (iDP) Business Committee

Singapore

- In-Charge of gathering sponsorships, liaising with companies and organizing events.

Aug 2016 - Apr 2017

Tech Factor Challenge (Semi Finalist)

Singapore

- Prototyped an automated pill-cum-syrup dispenser to help tackle the problem of medical adherence.
- Obtained a seed fund of SGD \$4000.

Projects & Hackathons

Jan 2018

Winclos – NUS Hack and Roll 2018

Singapore

- Participated in a 24-hour hackathon.
- Constructed a prototype which uses sensors to detect the intensity of the rain and depending on the received data; it would open or close the window.
- Programmed an Arduino to control various sensors and motors.
- Built a react-native application to gather the data from the sensors.

Aug 2017 - Nov 2017

Audio Effects – Verilog Project

Singapore

- Programmed the Xilinx FPGA Basys3 in Verilog language.
- Added new features such as volume control, pitch changer, delay, instrumental sounds, playback, seven segment display and countdown timer.
- Learnt the basics of MATLAB programming, to understand and change an existing code to suit the needs of the project.

Aug 2017 - Nov 2017

Directory of Contacts (DoC)

Singapore

- Programmed a command Line Interface (CLI) application based on Java language, which provides a speedy solution to managing events and contact information, with only just a few clicks on the keyboard.

Jun 2017 - Aug 2017

NUSConnect (Orbital – Apollo Level)

Singapore

- Built a web application on MEAN Stack.
- Aimed at creating a medium to facilitate better communication between students and educators in NUS.
- Programmed a forum, utilized the NUSMODS API for module details and put together a chatting medium via socket.io.

Jan 2017 - Apr 2017

Balloon Satellite

Singapore

- Designed, tested and prototyped a balloon satellite with sensing, actuation, wireless communication and live video streaming capabilities to perform real-time weather monitoring.

Skill Sets & Proficiency

Office Productivity	Microsoft Word	Proficient
	PowerPoint	Proficient
	Microsoft Excel	Intermediate
Mobile Development	React Native	Basic
Web	HTML, CSS	Intermediate
	Ruby on Rails	Intermediate
Database	POSTGRES DBMS	Intermediate
	SQL	Intermediate
Programming	Java	Proficient
	Python	Intermediate
	C	Intermediate
	Javascript	Intermediate
	Computer Vision	Basic
Markup	XML	Basic
Operating Systems	Linux	Intermediate
	Windows 10	Intermediate
Hardware Design	Verilog	Basic
	VHDL	Basic

Language Proficiency

Spoken	English – Fluent; Tamil – Fluent
Written	English – Fluent; Tamil – Competent