

Siddharth Madhavan

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



About Me

I am a year 2 Computer Engineering (CEG) student from the National University of Singapore (NUS). As a CEG student, I wanted to gain technical experience on both the hardware and software fields. Therefore, I interned as a software engineer in a Human Resource management start-up and completed numerous software-cum-hardware projects to obtain a wider skill set.

Currently, I have been selected for NUS Overseas College (NOC), an entrepreneur-centric programme which requires me to travel to Toronto, Canada for a year. I would be required to work in a start-up and take entrepreneurship modules from the University of Toronto (UofT).

As a smart working individual, I am looking for an opportunity to work in an organization that is innovative, driven and believe in gaining a competitive edge.

Education

Aug 2016 - Present	National University of Singapore Bachelor of Engineering (Honours) in Computer Engineering Cumulative Average Point: 4.32 / 5.00	Singapore
Jan 2012 - Nov 2013	Jurong Junior College <ul style="list-style-type: none">Singapore-Cambridge General Certificate of Education Advanced LevelSubjects: Physics, Chemistry, Mathematics, Economics	Singapore

Work Experience

Jan 2012 - Present	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
May 2014 - Mar 2016	Singapore Armed Forces <i>3rd Sergeant (Supply Chain)</i> <ul style="list-style-type: none">Displayed exceptional leadership quality and was chosen to become a Sergeant in the Singapore Armed Forces.Awarded the Silver Bayonet, which is awarded to the top 10% of the cohort based on their leadership qualities, fitness and other measures.In-Charge of the training, discipline and welfare of about 60 subordinates.	Singapore

Scholastic Achievements/Extracurricular Activities

Aug 2017 – Present	Indian Cultural Society (ICS)	Singapore
	<ul style="list-style-type: none">• In-Charge of teaching single parent / under-privileged kids as a part of ICS's initiative.	
Jun 2017 – Jul 2017	Sangae Muzhangu (Theatre)	Singapore
	<ul style="list-style-type: none">• 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 - Present	Innovation and Design Programme (iDP)	Singapore
	<ul style="list-style-type: none">• iDP focuses on the collaboration between engineering students from various disciplines to ideate and create products to solve real word problems.	
Jan 2017 – Nov 2017	Innovation and Design Programme (iDP) Business Committee	Singapore
	<ul style="list-style-type: none">• In-Charge of gathering sponsorships, liaising with companies and organizing events.	
Aug 2016 - Apr 2017	Tech Factor Challenge (Semi Finalist)	Singapore
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• Programmed a command Line Interface (CLI) application, which provides a speedy solution to manage event and contact information, with only just a few clicks on the keyboard.• Written on Java language.	

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