

Siddharth Madhavan

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



About Me

I am a year 4 Computer Engineering (CEG) student from the National University of Singapore (NUS). 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 experiences. 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 and Second Major in Innovation and Design Program Cumulative Average Point: 4.41 / 5.00 or 3.52 / 4.00	Singapore
Aug 2018 - Jul 2019	NUS Overseas Colleges Toronto <ul style="list-style-type: none">A year-long entrepreneurial program where students work at a high tech startup in Toronto, Canada and simultaneously study entrepreneurship courses.	Toronto, Canada
Aug 2018 - Jul 2019	University of Toronto <ul style="list-style-type: none">Took courses in entrepreneurship, marketing and new venture creation over a duration of one year.	Toronto, Canada
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

Aug 2018 - Jul 2019	Blockthrough <i>Software Engineering Intern</i>	Toronto, Canada
<ul style="list-style-type: none">Created an industry standard Single Request Architecture that would reduce the network calls being made to the server. With reduced latency, more auctions were taking place and thereby increased the overall revenue by about 40%.Implemented a tag-free way for publisher's to onboard, which reduced the on-boarding time by 1/3.Aided in getting Google Ad Exchange up and running for all publishers which increased the overall revenue by more than 20%.Developed a working prototype of Amazon's A9 integrated with the current solution.Generated a lambda script that runs on a cron job, to actively create configuration file that would be used by the cloud to insert advertisements on to the publisher's page.Assisted in developing an Apollo GraphQL Server Backend for the the new dashboard that was being migrated from Django.		

Jun 2017 - Oct 2017	PayBoy Private Limited <i>Software Engineering Intern</i>	Singapore
	<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. 	
May 2014 - Mar 2016	Singapore Armed Forces <i>3rd Sergeant (Supply Chain)</i>	Singapore
	<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. 	

Scholastic Achievements/Extracurricular Activities

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 in Java language. 	

Jun 2017 - Aug 2017	NUSConnect (Orbital – Apollo Level)	Singapore
	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • 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 PowerPoint Microsoft Excel	Proficient Proficient Intermediate
Mobile Development	React Native	Basic
Web	HTML, CSS Ruby on Rails Django	Intermediate Intermediate Intermediate
Database	POSTGRES DBMS SQL	Intermediate Intermediate
Programming	Java Python C Javascript Computer Vision	Proficient Intermediate Intermediate Intermediate Basic
Markup	XML	Basic
Operating Systems	Linux Windows 10 Mac	Intermediate Intermediate Intermediate
Hardware Design	Verilog VHDL	Basic Basic