





## EXPERIENCE

- National University of Singapore, Undergraduate Teaching Assistant** Jan 2017 - Present  
 Taught CS2103T Software Engineering (Spring 18)  
 Reviewed pull requests from students to encourage good software engineering practices.
- Government Technology Agency of Singapore (GovTech), Data Engineer Intern** Dec 2017 - Jan 2018  
 Implemented and released public APIs for Data.gov.sg portal using Node.js with AWS Lambda and DynamoDB.  
 Minimized AWS Lambda costs by benchmarking, profiling and optimizing slow-running Node.js scripts.  
 Developed and deployed SMS-based medicine reminder solution targeted at middle-aged users.
- Ethereum Tech, Freelance Web Developer** Oct 2017 - Dec 2017  
 Created the front-end of a cryptocurrency mining analytics dashboard with Vue.js.  
 Suggested and implemented improvements to user experience from client's original design.
- Ministry of Defence (Singapore), Personnel Systems Analyst** Dec 2014 - Aug 2016  
 Simulated and analysed personnel movement using complex system dynamics simulations.  
 Wrote VBA macros and SQL queries for Microsoft Access, Excel and Word.
- Alpha Consulting Engineers Private Limited, System Administrator** Mar 2014 - Jul 2014  
 Administered Windows servers and clients using IIS and Active Directory.  
 Redesigned homepage using HTML5, CSS and JavaScript.  
 Implemented features in the intranet page using jQuery, PHP and MariaDB/MySQL.  
 Decompiled and modified legacy JavaServer Pages application.

## EDUCATION

- National University of Singapore** Aug 2016 - Present  
 Bachelor of Computing in Computer Science. GPA: 4.70/5.00 (First Class Honours)

## PROJECTS

-  **Pear** Oct 2017 - Nov 2017  
 Progressive Web App (PWA), iOS and Android app where users matchmake their friends.  
 Led front-end development using Vue.js and Cordova.  
 Released app to iOS App Store and Google Play Store, hit 300 users within 24 hours.  
 Source: [github.com/Pear-App/pear-client](https://github.com/Pear-App/pear-client), Info: [11th STePS submission](#)
-  **collaborate!** Jun 2017 - Aug 2017  
 Real-time collaborative webapp that simulates a table top discussion.  
 Led front-end development using React + Redux and Socket.io.  
 Wrote and deployed back-end using Node.js and Koa.  
 Source: [github.com/goweiwen/collaborate](https://github.com/goweiwen/collaborate), Demo: [collaborate-app.herokuapp.com](https://collaborate-app.herokuapp.com)
-  **vue-swing** Oct 2017 - Present  
 Vue.js component for swiping cards left and right, as seen in apps like Jelly and Tinder.  
 Published on NPM and actively maintained.  
 Source: [github.com/goweiwen/vue-swing](https://github.com/goweiwen/vue-swing)
-  **ivle-sync** Aug 2016 - Present  
 Automatically downloads files, announcements and webcasts from NUS's IVLE portal.  
 Created and maintained application built in Python 3.  
 Source: [github.com/goweiwen/ivle-sync](https://github.com/goweiwen/ivle-sync)

## AWARDS

- Yale-NUS Data 2.0 Datathon, First Place** Mar 2018  
 Studied viability of ride sharing in Singapore compared to public transport regarding carbon emissions using R.
- NUS 11th School of Computing Term Project Showcase (11th STePS), Second Place** Nov 2017  
 Pear won 2nd prize in NUS's 11th STePS for CS3216 Software Product Engineering for Digital Markets.
- NUS Orbital Programme 2017 (Apollo 11), Honorable Mention** Sep 2017  
 collaborate! won an honorable mention in the advanced category of NUS School of Computing's Orbital 2017.
- FOSSASIA 2017 Microsoft Mission Mars Challenge, Second Prize** Mar 2017
- DMG Excellence Award (Individual)** Mar 2016  
 Awarded by the Defence Management Group to individuals who have displayed exemplary attitude towards work.

## SKILLS

**Languages:** Python JavaScript HTML/CSS Haskell Golang Kotlin Scala Ruby Java PHP SQL  
**Front-end:** Vue.js React.js Elm Angular jQuery Vanilla JS  
**Back-end:** Node.js Express/Koa Django Flask Golang Ruby on Rails Laravel PHP  
**Data Science:** NumPy Pandas R Keras TensorFlow

**Degree:** Bachelor of Computing (Honours) in Computer Science

**Cumulative Average Point: 4.70 / 5.00**

Year	Level	Course Description	Grades
Aug – Nov 2016	Year 1/Semester 1	Data Structures and Algorithms I	A
		Discrete Structures	A
		Quantitative Reasoning	A-
		Linear Algebra I	A-
		Calculus for Computing	S
Jan – May 2017	Year 1/Semester 2	Asking Questions	CS
		Logic	S
		Data Structures and Algorithms II	A
		Computer Organization	A
		Fundamentals of Physics II	A
		Probability	A-
Aug – Nov 2017	Year 2/Semester 1	Independent Software Development Project	CS
		Mathematical Statistics	B
		Machine Learning	A
		Effective Communication for Computing Professionals	B+
		Software Engineering	A
		Software Product Engineering for Digital Markets	A+
Jan – May 2018	Year 2/Semester 2	Drugs and Society	In-progress
		Communicating in the Information Age	In-progress
		Introduction to Artificial Intelligence	In Progress
		Introduction to Operating Systems	In Progress
		Design and Analysis of Algorithms	In Progress
		Logic and Formal Systems	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