





EXPERIENCE

- UpGuard, Site Reliability Engineer Intern** Aug 2018 - Present
- Design and deploy Docker containers for deployment on Kubernetes and Fleet.
 - Orchestrate Docker containers on Google Kubernetes Engine and onsite Kubernetes clusters.
 - Develop Helm Charts for easily configurable deployments.
 - Write Golang programs and shell scripts to control Kubernetes pods.
- Sea Group, Software Engineer Intern** May 2018 - Jul 2018
- Developed iOS applications with Swift and Objective-C
 - Increased App Store rating from 3.4 to 4.7 stars by asking users to rate the app after satisfactory interactions.
 - Created a CocoaPod to easily create and show users guided tours using Swift, with Objective-C interop.
- 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.

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, 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, Demo: 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
-  **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

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.