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## WORK EXPERIENCE

### **vPure** - CTO

Sep 2018 - PRESENT

- Joined this startup as CTO to implement service booking software to automate the manual booking and admin processes in the company.
- In charge of creating the first version of our Web App's fullstack system from scratch and managing the current dev team.

### **McDonalds, Singapore** - Barista Trainer

Nov 2014 - PRESENT

- Started work here on my 14th birthday. Started as a crew, before promoted a few times to finally become the Barista Trainer for new Baristas in my store.
- From this company I learned a lot about the corporate world and gain skills in leadership roles given to me

### **HomeGrown** - Co-founder and CTO

Dec 2017 - Feb 2019

- Created during a hackathon, our product is a agriculture process monitoring system that is easy to use and customisable by users, e.g. farmers.
- My role involves working on the monitoring and notification software.

### **LNFinancial** - Telemarketer from Sales dep.

May 2018 - Nov 2018

- Gained experience with cold calling for sales through my role.
- I've learned how to market products and gain confidence in interpersonal communications.

### **Sensible Thinks** - Founder

Sep 2017 - PRESENT

- Founded this startup with my friends based on our product created during a Hackathon.
- Working on modular plug & play IIOT solutions through communication protocol adapters using FPGAs and standardised software suite with open source libraries.

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## SKILLS and EXPERIENCES

### General Tool Chain knowledge:

- git version control usage. View my [Github account](#).
- GNU toolchain → gcc/g++ / make tool
- Working knowledge of networking technologies and usage.
- Experienced building and using CI/CD pipelines for automated deployments.

### Web development Experiences

#### Backend:

- Node JS server development experience without frameworks dependencies like Express / Koa / Sails ...
- Self made Node JS server framework [here](#) as part of a learning experience.
- Created SaaS based web-app products and backend services for it.
- Experience with custom made Stateless Security, using JWT/BCrypt/OAuth+OpenID
- Experience with building and using container images (Docker).
- Integration with NGINX as reverse proxy and load balancer.
- Build front-end services and APIs before with Server Side Rendered (SSR) content using engines like Pug/Jinja2.
- Familiar with frameworks such as Express/Koa and ES6/next features, which I learned while building web services for my startup's web-app and API service.
- Python server development with Flask framework and Jinja2

#### Frontend:

- Experiences with using the latest RWD technologies and techniques such as CSS grid which is implemented on my [portfolio website](#).
- Most of my sites like are built entirely from scratch without any frameworks using Web Standards like Web Components/CSS Grids/Shadow Dom and more. This makes them as standard compliant as possible, which helps create longer software lifetime thanks to great backward compatibility support for standards by browsers.
- Working understanding of React.JS and BootStrap.

### C/C++

- Experienced with building and packaging libraries for collaborative work in C/C++
- Competitive C/C++ Programming experience using UVA Judge, focused on Data Structure and Algorithm based questions.
- Familiar with Data processing and Heap Memory manipulation.
- Experienced with embedded device programming and its toolchains such as gcc/g++, CMake, Atmel Studio, MPLAB IDE, Arduino and other Cross Compilation techniques.

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## Others Programming experiences:

- *Python*
  - Raspberry Pi “smart home” IOT solution [project](#).
  - As part of the above project, I created and published 3 packages on my [PyPi](#) account and currently working on new features for them too.
  - Front-end web services with Flask and Jinja2.
- *Java*
  - Built a desktop application with the Swing GUI Library with MVC design pattern.
- *Databases*
  - Experience with RDBMS like MySQL/mariaDB and NoSQL databases (MongoDB) and building edge applications on top for polyglot persistence systems.
- *Different programming paradigms:*
  - Procedural programming (C/C++ and Embedded Devices)
  - Functional Programming (JavaScript)
  - Object Oriented Programming (JavaScript / C++ / Java / Python)
  - Basic understanding of Reactive Programming with JS and C++
- *New languages*
  - Started learning Go in 2019 to use for Web Service development, as part of an optimization effort to improve my web services.
  - Learning *Elixir* and *Clojure* in 2019 to deepen my knowledge in Functional Programming and to use these for Web Service development one day as this is where my interest lies.

## Native related technologies:

- Working knowledge experience with Electron JS.
- React JS experiences that is useful for building in React Native if needed.

## Electronics:

- Specialise in mixed circuit designs and logic controllers.
- Familiar with power supply design and signal conditioning techniques.
- Familiar with basic amplifier designs and really interested in these, I have a project based on this as well where I designed and created my own Speaker Amp.

## Some projects that I have done

- [Node JS RESTful API Server Framework](#)
- [IOT smart home solution in Python](#)
- [WebApp to help prevent diabetes through gamification](#)
- [My portfolio website](#)
- [Computer Vision to prevent drowsy driving related accidents](#)
- [Non-blocking, event based embedded system software for a school project](#)
- [Java 'Movie Booking' GUI Application](#)

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## EDUCATION

### **Dunman Secondary School, Singapore**    Class of 2016

*GCE O level Certificate*

Graduated with 12 Points net aggregate L1R4 score for O' levels.

### **Temasek Polytechnic, Singapore**    Class of 2020

*Diploma in Computer Engineering*

Advance Skills Practice elective.

## AWARDS, CO-CURRICULAR ACTIVITIES and ACHIEVEMENTS

### **Secondary school**

Jan 2012 - Dec 2016

- Served as Vice captain for Table Tennis Club for a year and a half.
- Member of XCode CCA where IOS app development was taught.

### **Temasek Polytechnic**

April 2017 - PRESENT

- Honorary Treasurer of Engineering Maker's Club, *AY2019/2020*
- CBDO of TP [Project Innov8](#), *AY2018/2019 - AY2019/2020*
- Member of Entrepreneurship Club

**2019** Representing TP Engineering in the *Smart Nation Award* for my [Dance Away](#) project.

**2019** Second Place in the hackathon *Hackomania 2019* API challenge.

**2018** Certificate of Excellence from NTU School of Computing and School of Engineering for *Programming Intelligence in Robotics*.

**2018** Certificate from NTU SCSE in a Ethical Hacking workshop.

**2018** Served as Medic of Overseas Community Project for Solar Light installation in villages.

**2018** Top 10 among 58 teams in the Social Innovation Festival Hackathon.

**2017** TP's Smart Campus Hackathon, which lead to the creation of SensibleThinks.