Lee Jun Jie

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WORK EXPERIENCE

vPure   *- CTO*

Sep 2018 - PRESENT

- Joined this startup as CTO to implement service booking software to automate 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.

SKILLS and EXPERIENCES

General Tool Chain knowledge:

- Comfortable with pure CLI systems and toolchains.
- git version control usage. View my [Github account](#).
- GNU toolchain ➜ gcc/g++ / make tool
- Working knowledge of networking technologies and usage.

Web development Experiences

Frontend:

- Experiences with using the latest RWD technologies and techniques such as CSS grid which is implemented on my [portfolio website](#).
- Most of my websites like this website is built entirely from scratch without any framework with Web Standards like Web Components, CSS Grids, Shadow Dom and more. This is to make websites as standard compliant as possible which helps to be rendered properly across different browsers and have longer software lifetime as browser's have great backward compatibility support for standards.
- Working understanding of React.JS and BootStrap.

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.
- Experience with creating web apps and services, and also currently developing a Web App for my own startup with self made Full Stack.
- Experienced with Server deployment and architect designs, with custom made Stateless Security integration, using JWT / BCrypt / OAuth and OpenID.
- Integration with NGINX as reverse proxy and load balancer.
- Experienced with Server Side Rendered (SSR) content with engines like Pug/Jinja2
- Although most of my Web Services' backend is build with vanilla Node.JS, I am also experienced with using frameworks such as Express.JS and Koa.JS (with ES6 features) through building web services for my startup.
- Python server development with Flask framework and Jinja2
- Working knowledge of XAMPP stack

C/C++

- Competitive C/C++ Programming experience using UVA Judge, focused on Data Structure and Algorithm based questions.
- Experienced with building and packaging libraries for collaborative work in C/C++
- 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.

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.

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

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.