
LEE JUN JIE

Computer Engineering Diploma Student

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WORK EXPERIENCE

Sensible Thinks - *Founder*

Sep 2017 - PRESENT

- Founded this startup with my friends based on a product that was created during one of the Hackathons that we participated in.
- Working on modular plug & play IIOT solutions and standardised software integration technologies.

McDonalds, Singapore - *Barista Trainer*

Nov 2014 - PRESENT

- Started work here day after my 14th birthday. Started as a crew, before passing a few promotions to become 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 - PRESENT

- Created during a hackathon, our product is a agriculture controller system that is easy to customise by the users, e.g. farmers.
- My role involves working on the controller 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.

vPure - *CTO*

Sep 2018 - PRESENT

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

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.

C, C++ with focus on embedded C programming:

- Did Competitive C/C++ Programming from UVA Judge, with focus on Data Structure based and Algorithmic questions.
- Experienced with building 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 Compiling techniques.

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:

- Pure Node JS server development experience without using any frameworks like Express / Koa /Sails ...
- Self made Node JS server framework [here](#).
- 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 Security Systems, 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/Jade/Jinja2
- Although most of my Web Services' backend is build with vanilla Node.JS, I am also familiar with using frameworks such as Express.JS and Koa.JS (With ES6 Generators and iterators / async/await).
- Python server development with Flask framework and Jinja2
- Basic working knowledge of XAMPP stack

Others and other Programming languages:

- *Go*
 - New language that I am learning this 2019 to use for backend server side development, as part of an optimization effort to improve my web services.
- *Java*
 - Experienced with it and the Swing GUI Library, as part of a project I did.
- *Python*
 - Working experience of using Python as backend web server with Flask.
- Experiences with Database Design and usage with Relational Databases like MySQL/mariaDB and NoSQL databases such as MongoDB.
- Familiar with different **programming paradigms**:
 - Procedural programming (C/C++ and Embedded Devices)
 - Object Oriented Programming (JavaScript / C++ / Java / Python)
 - Functional Programming (JavaScript)
 - Basic understanding of Reactive Programming with C++

Other Native related technologies:

- Working knowledge of Electron JS technology and usage.
- React JS experiences that can help me in the future with React Native when needed

Electronics:

- Familiar with using most lab equipments such as analog/digital oscilloscopes.
- 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

- [My portfolio website](#)
- [Pure Node JS Server Framework](#)
- [GDP Analytics App in C](#)
- [Competitive C/C++ Programming for UVA Judge](#)
- [Java 'Movie Booking' GUI Application](#)

EDUCATION

Dunman Secondary School, Singapore - *GCE O level Certificate*

2013 - 2016

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

Temasek Polytechnic, Singapore - *Diploma*

April 2017 - April 2020

Computer Engineering Diploma,

Advance Skills Practice elective.

Will graduate as part of the April 2020 cohort.

AWARDS, CO-CURRICULAR ACTIVITIES and ACHIEVEMENTS

Secondary school - 3 CCAs

Jan 2012 - Dec 2016

- Member of award winning choir for a year.
- Vice captain for Table Tennis Club for a year and a half.
- Part of the XCode CCA where IOS app development was taught.

Temasek Polytechnic - 3 CCAs

April 2017 - PRESENT

- Part of the Main Committee of Engineering Maker's Club.
- Member of Entrepreneurship Club.
- Current CBDO of TP Project Innov8 <https://tpinnovationclub.wixsite.com/tpinnovate>

2018 Certificate of Excellence from NTU School of Computing and School of Engineering.

2018 Certificate from NTU SCSE in a Ethical Hacking workshop.

2018 Medic of Overseas Community Project, focused on Solar Light installation for villages.

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

2017 Participated in TP's Smart Campus Hackathon, that which lead to the development of SensibleThinks.