

# Ivan Tham Jun Hoe

## Curriculum Vitæ

Selangor, Malaysia

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🌐 [pickfire.github.io](https://pickfire.github.io)

🔗 [pickfire](#)

📄 [ivan-tham](#)

*A hardworking, diligent and tenacious problem solver  
who learns quickly and produce quality work.  
Expertise includes full-stack development and Linux  
systems. Proficient in Python.*

## Experience

### Vocational

2020 – **Software Development Engineer**, *Semut Technologies*, Singapore.

- present**
- Continue development and maintain a legacy project that handle scaling of clusters with Go & Kubernetes & MySQL & Prometheus & M3DB & Netdata & cadvisor;
  - Prepare dependencies and deployment structure of the stack in the company with Kubernetes & kustomize;

2017 – 2020 **Research Assistant**, *Asia Pacific University of Technology and Innovation*, Malaysia.

- Revamp attendance system to use QR code on web with AWS Lambda & AWS AppSync & Cloudformation & GraphQL;
- Integrate calendar system with 3rd party tools such as Microsoft Graph API with AWS Lambda & Python;
- Worked on school mobile application on Ionic & Chalice & Zappa & AppSync;
- Database search and indexing with Elasticsearch & Python & Oracle;
- Worked on some other minor projects with PHP & C & Angular & Ionic;
- Built university attendance system with AWS IoT Platform & Python & Tkinter & Angular & Serverless;

2019 **Backend Engineer / Data Analyst Intern**, *Semut*, Malaysia.

- Research on NLP to match job and candidate using custom word vector with Spacy & Textacy;
- Develop backend API server and auth server up to 90% test coverage with ExpressJS & Sequelize & OAuth2 & OpenID Connect;

2018 – 2019 **Freelance Full-stack Engineer**, *Digi Telecommunications*, Malaysia.

- Built DaaS API with ExpressJS & MongoDB & Winston;
- Added user management and password reset to existing system with Node.js & Bootstrap;
- Added caching mechanism to existing data models with Redis;

2017 **Full-stack Engineer, Site Reliability Engineer**, *Vase Technologies*, Malaysia.

- Built back-end system for data analytics with Python/pandas;
- Deployed docker swarm clusters in Microsoft Azure;
- Modification of full-stack chat system in Go & React.js;

2016 **System Administrator**, *Webconverger Pte Ltd*, Singapore.

- Maintain the Webconverger port to Raspberry Pi 2;
- Develop a web page for configuration;

## Miscellaneous

- 2016 **Mechanical Engineer Apprentice**, *SK Engineering Sdn Bhd*, Malaysia.
- Practiced Welding in my spare time;
  - 3D CAD Modeling;

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## Education

- 2017 – 2020 **Degree**, *Asia Pacific University*, Malaysia.  
Computer Science with specialism in Data Analytics
- 2016 **Foundation**, *Asia Pacific University*, Malaysia.
- 2010 – 2015 **High School**, *SMK Pusat Bandar Puchong 1*, Malaysia, *7A 3B 1C*.

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## Skills

Programming Python, Go, C, Rust, PHP                      Web Dev Angular, React.js, Vue.js  
Environment Linux, Vim, Git

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## Languages

Chinese Native language    *Dialects: Mandarin, Cantonese*  
English Advanced level  
Malay Advanced level

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## Activities

### OSS Development

- 2015 – now** **Author**, *spt*, simple pomodoro timer.
- 2015 – now** **Author**, *sssg*, stupid static site generator.
- 2017 – 2018 **Package maintainer**, *Alpine Linux*, Small, Simple, Secure musl-based Linux distro.
- 2015 – 2016 **Patches, Ideas**, *surf*, suckless browser.
- 2015 – 2016 **Ideas**, *fish*, friendly interactive shell.
- 2015 **Maintainer**, *RPi-AUI*, Raspberry Pi Arch Ultimate Installer.

### Volunteering Experience

- 2017 – now** **Teacher**, *Guanyin Temple*, Malaysia.
- 2016 **Assistant Camp Leader**, *1-3 Grade Primary Student Camp*, Malaysia.
- 2016 **Wushu Assistant Trainer**, *Jin Wu*, Malaysia.  
Taught Nan Quan and Chang Quan