

# Ivan Tham Jun Hoe

## Curriculum Vitæ

Selangor, Malaysia

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

🔗 [pickfire](#)

in [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 and Rust.*

## Experience

### Vocational

- 2021 -- now **Software Engineer**, *Pantas Software*, Malaysia
- Build e-invoicing platform to provide SME financing with Django & jQuery;
  - Develop and maintain Pantas climate solutions specifically on the carbon accounting tool with Django & jQuery;
  - Take initiative to setup Continuous Integration, metrics and testing infrastructure;
- 2020 -- 2021 **Software Development Engineer**, *Semut Technologies*, Singapore
- Experiment and iterate on design of metric stack for both internal and users usage with Kubernetes & Prometheus & M3DB & cadvisor & node exporter;
  - 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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## Activities

### OSS Development

- 2019 -- now **Co-host**, *Rust Malaysia*, Organize rust meetups/workshops, Give talks  
<https://rust-malaysia.github.io/>
- 2021 -- 2022 **Maintainer**, *helix*, Helix  
<https://helix-editor.com/>
- 2015 -- 2022 **Author**, *spt*, simple pomodoro timer
- 2015 -- 2022 **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

### Side Projects

- 2021 **Reverse proxy**, *Rust*, HTTPS reverse proxy with auto cert renewal

### 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

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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  
English Advanced level  
Malay Advanced level

*Dialects: Mandarin, Cantonese*