Ivan Tham Jun Hoe

Curriculum Vitæ

Selangor, Malaysia
📱 *+60 16-441 0216*
✉ *ivantham@riseup.net*
🌐 *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 with GitHub actions and error reporting tools like Sentry;
- Architect and configure metrics infrastructure with Prometheus & Grafana & docker compose;
- Aid in migration to AWS EC2 with AWS networking setup;

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;

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

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*

Skills

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

Languages

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