

Yong Wen Chua

Education

2010–2014 MEng Electronics and Information Engineering, Imperial College London, London, United Kingdom
First Class Honours

Experience

- 2014– Open Source Contributions
current Please see below.
- 2021– Aicadium, Senior Cloud Infrastructure Engineer, Singapore
Current ● Basis AI was acquired by Aicadium in August 2021
- 2019– BasisAI, Principal DevOps Engineer, Singapore
2021 ● Led the design and implementation of a secure cloud native SaaS product running on Google Cloud Platform and Amazon Web Services
● Manage several Kubernetes Clusters running our product and our customers' workload
● Fully codified and automated infrastructure provisioning using Infrastructure as Code tools such as Terraform and Ansible
● Used state of the art cloud-native software and technology, such as Consul, Vault, and Prometheus.
● Implemented and designed an automated infrastructure health monitoring system with alerts
- 2015– Government Technology Agency, Software and DevOps Engineer, Singapore
2019 ● Dockerized applications and set up and Docker based continuous integration and delivery pipeline using TeamCity for several applications, including the Business Grant Portal. This allowed easy replication of similar test and production environment for developers to work with.
● Fully automate the deployment of applications using Ansible.
● Built an open source JSON Web Token (JWT) based authentication service for internal micro-services using Rust. In the process, I also wrote some libraries to support this service including libraries to handle JWT and Cross-origin resource sharing.
● Occasional open source contribution to tools like Docker Compose and Yarn package manager.
● Deployed a Nomad and Consul cluster on AWS in a fully automated manner using Terraform.

- 2014–2015 LShift. Ltd, Senior Developer, London, United Kingdom
Worked on several .NET projects and a Java project, including a MVC web service
- 2013 LShift. Ltd, Summer Internship, London, United Kingdom
Worked on an iPad application and a service for converting Google Docs to \LaTeX .

Languages

English Native
Chinese Native

Computer skills

OS Linux, Windows

Programming Rust, Go, C#, C++, Python, Ruby, JavaScript, Shell

DevOps tools Ansible, Docker, Vagrant, Terraform, Nomad, Consul, Vault, Kubernetes, Helm, Prometheus, Grafana

Methodology Agile, Scrum, DSDM, Continuous Integration/Deployment

Cloud Service Provider Amazon Web Services, Google Cloud Platform

Open Source Projects

This is a partial list of open source projects. See my Github Profile for the full list.

Rust JOSE library (<https://git.io/v7dIz>)

Rust Continuous Integration tool for Bitbucket (<https://git.io/v7dI2>)

Rust Automated tool for test merging topic branches for Git (<https://git.io/v7dIV>)

Rust CORS Library for the Rocket.rs framework (<https://git.io/v7dIW>)

Go Contributor to Terraform Vault Provider (<https://git.io/Jeayk>)

C++ LLVM Obfuscator: Implementation of Obfuscation techniques with LLVM compiler (<https://git.io/v7dIr>)

Ruby Library for Rack applications to intergrate with CorpPass, a SAML based identity provider (<https://git.io/v7dIo>)

Ansible Ansible role for deploying Docker applications with Docker Compose (<https://git.io/v7dIK>)