Yong Wen Chua

Education

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

Experience

2014–current **Open Source Contributions**.
Please see below.

2019–current **BasisAI**, *Principal DevOps Engineer*, Singapore.
- 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

2015–2019 **Government Technology Agency**, *Software and DevOps Engineer*, Singapore.
- 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)