Yun-Chang Lo, 羅運昌

rfns.io/about • github.com/coldturnip • linkedin.com/in/coldturnip

Experienced developer with a demonstrated history of working in the computer software industry. Skilled in cloud-based microservice backend, large scale web threat analysis automation, and userspace system framework design on consumer electronics.

Skills

- Go, Python, Java, JavaScript, Rust, C / C++98, Scala
- Kubernetes, Linux container
- Jenkins, CircleCI
- Lanugage: Taiwanese Mandarine, English

Experience

Security Lab, IBM

(2021-present) Backend developer of Unified EdgeGateway in Cloud Pak for Security

Distributed security application management system to bridge IBM CP4S and on-premises platforms.

- RESTEasy JAX-RS, Fabric8, Kubernetes (OpenShift / K3s), Next.js
- Design and implement distributed cross-cluster Kubernetes-based application management system
- IBM Security Taipei 2024Q3 Hackday champion
- Support render server development while development resource shortage

(2020-2021) Hybrid cloud system development Integrate SysFlow, an open source OS telemetry system for containerized microservices, into IBM Cloud Pak for Security, RedHat OpenShift, and vanilla Kubernetes-like clusters.

- Go, C++, Docker/CRI-O, PyTest
- Contributor of open source project github.com/sysflow-telemetry
- Design and implement isolated E2E test pipeline
- IBM Security Taipei 2020 Hackday champion
- Lead a patent group and successfully designed a method for clustered container protection

CoreTech, TrendMicro	**(2014-2020) Backend development in Web Reputation Service team**

Realtime web page scaning and rating service.

- Python, Go, Spark, AWS
- Module design/implementation of detection judgement pipeline
- Redesign internal framework to turn Python2-CentOS based modules into Python2/3-crossplatform RESTful microservices with zero impact to existed on-production services
- Improve realtime distributed detection service throughput capacity
- Internal education about Go and Dockerize system design

Systems Business Group, ASUS	**(2009-2013) Android BSP**

System integration on Android Phone and Tablet. Mainly focus on wireless communication components.

- Java, C, C++, Linux kernel, Go/Python
- 3GPP SIM/USIM related radio interface layer developer (2009-2013)
- Bluetooth fucntion owner (BlueZ, 2011-2012)
- USB function owner (HSIC host / gadget device driver, 2012-2013)
- Test tool development for factory
- On-site support: RIL, USB, and system development, Mountain View, 2012-2013

Public Speach

- **Adaptive Cluster - Kubernetes Operator 5W1H**,
  - KCD Taiwan, COSCUP 2024
  - https://kcd-taipei-2024.sessionize.com/session/705610
  - https://tinyurl.com/rfnscoscup2024

Patent

- **Clustered Container Protection**
  - Zero-pretrained cluster-based runtime malicious behavior detection for containerized components.
  - https://patentcenter.uspto.gov/applications/17643864

Research Experiences

- 蔡育仁, 林立晟, **羅運昌**, 蔣志彥. *無線區域網路之網路拓撲探勘技術研究*, Chung Shan Institute of Science and Technology, 2008
- **Yun-Chang Lo**. *Estimation of Multiple Sources Using E-M Algorithm in Distributed Wireless Sensor Networks*, 2009

Education

2007-2009   **M.S., Communication Engineering**; National Tsing Hua University
Communication theory, Wireless Communication System Lab.

2003-2007   **B.A., Communication Engineering**; National Central University
Broadband Internet and communication theory.

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