HSUAN YU LIN

✉ nathan.lin0213@gmail.com   in hsuan-yu-lin   ⌂ github.com/nathan-tw   ⌂ star-67.com

Experience

Oracle — Software Engineer – System Testing   May. 2024 – Present
OCI, Oracle Database, Python, IPv6   *Taipei, Taiwan*
- Covered 20+ cluster network testing issue including node failover, IPv6 neighbor discovery and SELinux.
- Optimized user experience by filing bugs and feature enhancements like fixed ports data transfer.
- Automated OCI exaDB-D database lifecycle management testing flow using Python.

Ubiquiti — DevOps Engineer   Feb. 2022 – May. 2024
AWS, ECS, Terraform, Go, Python, Email, Rate limit   *Taipei, Taiwan*
- Achieved a 90% reduction in bounce rate through email tracking and DNS validation.
- Significantly reduced spam mail by 80% through the implementation of a rate limiter with various dimensions.
- Reduced deployment time by 20% through CI/CD implementation with AWS CodePipeline and blue-green deployment.
- Successfully managed over 10+ environments by configuring cloud-based infrastructures using Terraform.
- Achieved a 50% improvement in response time by optimizing database query through analysis of slow queries.
- Delivered a 30% reduction in unauthorized access attempts and a 25% increase in user satisfaction by integrating door access with facial recognition technology and Apple Wallet passes

Swif — DevOps Engineer (part time)   Nov. 2023 – Feb. 2024
GCP, Kubernetes, Helm, ElasticSearch, SSL   *Remote, USA*
- Achieved a 99.9% uptime rate by effectively managing a Kubernetes cluster deployed on GKE.
- Maintained strict industry security standards by overseeing 50+ SSL certificates with ACME.
- Spearheaded efforts with Vanta to resolve 20+ security issues, crucial in securing the SOC2 certificate and ensuring a compliant infrastructure.

Garmin — DevOps Engineer Intern   Jul. 2021 – Sep. 2021
Kubernetes, Jmeter, Gitlab-CI, Java   *Taipei, Taiwan*
- Boosted resource utilization efficiency by 30% by building a Kubernetes cluster on local servers using Kubeadm.
- Covered 80% of RESTful APIs by seamlessly integrating a load testing service with JMeter into our CI pipeline.

KKStream — DevOps Engineer Intern   Sep. 2020 – Jun. 2021
AWS, Lambda, Terraform, Gitlab-CI   *Taipei, Taiwan*
- Mitigated 70% of hardware-related errors for migration by transitioning from a local server to an AWS Lambda.
- Performed Swift UI testing with XCUI framework to enhance application validation, reducing manual testing efforts by 80%.

Academia Sinica — Research Intern   Jul. 2020 – Sep. 2020
ML, Static/Dynamic Analysis, Cuckoo, Windows PE file   *Taipei, Taiwan*
- Obtained a 95% accuracy rate in Windows malware detection via the comprehensive integration of dynamic and static analysis methodologies, leveraging the predictive capabilities of both LightGBM and LSTM models.

Education

National Chengchi University   Sep. 2017 – Jun. 2021
Bachelor of Science in Management Information Systems   *Taipei, Taiwan*

Projects

Rate Limiter | *Go, Lua, Redis, Docker*   Nov. 2023
- Developed a rate-limiting middleware for routing, employing sliding window and fixed window strategies.
- Offered both synchronous and asynchronous testing options while containerizing the project for simplified setup.

Crypto Trading Bot | *Go, Gin, Heroku, TradingView, Terraform*   Jan. 2021
- Developed a transaction system for crypto trading, receiving webhooks from TradingView.
- Deployed application to Linux virtual machines on both Heroku and Linode platforms.

Vector Space Model | *Python, Numpy*   Oct. 2020
- Developed a vector space model integrating Euclidean distance and cosine similarity for distance calculation.

Technical Skills

DevOps: CI/CD (Gitlab, Github, AWS Codepipeline, Argo, Jenkins), Kubernetes, Docker, Grafana, ElasticSearch, Jmeter
Languages: Python, Go, C, C++, Java, JavaScript, SQL, Bash
Web: Gin (Go), Flask (Python), React, Nginx, DNS, Mail Server