

Lucas Wang

Senior Engineer

📍 Adelaide, Australia

✉ lucas.wang@vlucaswang.com

💻 www.vlucaswang.com ↗

[in](#) LinkedIn ↗

[🐙](#) Github ↗

Hi! I'm an Engineer and **very** passionate about solving problems at scale and delivering impactful solutions. Here's what I do best: Linux, Containers, Developer Experience and Incident Management. If you are reading this to evaluate my tech skills I highly suggest you take a look at my GitHub profile: <https://github.com/vlucaswang>.

Skills

Platform

AWS CDK
Terraform
Cloudflare Akamai
Kubernetes

CI/CD

Buildkite Jenkins
Github ArgoCD
SonarQube

Observability/Incident

Pagerduty Datadog
Sumologic ELK

Security

Orca CrowdStrike
SSO Vault

Languages

English

Full Professional

Mandarin

Native Speaker

Work

Domain [↗](#)

Oct 2024 - Present

Senior DevOps Engineer

I build fault-tolerant and self-healing platforms which are easy to use, learn, deploy and contribute to and operate.

- Builds Kubernetes environment to replace existing AWS ECS clusters.
- Designs and implements API Gateway based on Envoy/Gloo.
- Creates developer experience first pipeline in ArgoCD to simplify delivery from end to end.

Domain [↗](#)

Oct 2022 - Oct 2024

Site Reliability Engineer

I build fault-tolerant and self-healing platforms which are easy to use, learn, deploy and contribute to and operate.

- Take ownership of the core infrastructure and platform that Domain runs on
- Designs and builds Kubernetes-based platform and workflow to support business requirements.
- Creates building block to shift left security (Orca, CrowdStrike), qualify (SonarQube) and observability (ELK) into the platform and pipeline.
- Delivers capability uplifting into product teams, and then establish sufficient documentation to allow teams to self-serve.
- Uplifts and improves CI/CD and developer experience in Jenkins/Github Action/ArgoCD, migrates teams into GitOps workflow.

Envato [↗](#)

May 2021 - Oct 2022

Site Reliability Engineer

I optimized, improved and maintained hybrid Heroku/AWS application environments.

- Developed subject-matter expertise on Cloudflare by understanding stakeholder needs and views.
- Containerized Continuous Delivery pipelines for a suite of Ruby and NodeJS applications.
- Assisted with our team's building out all infrastructure in managed code using Terraform.
- Collaborated with peers on the development of new tools and services used by all engineers.
- Integrated and migrated monitoring solutions into meaningful observability measurement, to help stakeholders in decision making.
- Added customized instrumentations to code for adding application observability.

DevOps Engineer

I led the project to containerize EC2-based environment for better availability.

- Built new NGINX(EC2)/PHP/Laravel(EC2)/MySQL(RDS) systems in AWS from code repository to fully automated test/staging/prod environment
- Implemented packer pipeline to build immutable AMI and update AutoScaling Groups, utilizing CodeDeploy to provide blue/green deployments.
- Rebuilt build/deploy pipeline to improve mean time to deliver from 2 hours to 10 minutes.
- Migrated CloudWatch Logs to SumoLogic and built SumoLogic log/metrics-based dashboards to provide operation and business visibility.
- Worked with security team to obtain SOC 2 Type 2/ISO 27001.
- Reduced AWS Cost by 10% in 6 months and improved efficiency.

**Avinet **

May 2019 - Oct 2020

DevOps Engineer

I built new infrastructure-as-code .Net-based systems in AWS, deployed by CI/CD pipeline with Azure DevOps/Octopus Deploy/Atlantis/Terraform.

- Provided end-to-end performance visualization and real-time security issue identification in the production environment via SumoLogic/Site24x7/PRTG/Cloudwatch and reduced the response time from 45 min to 15 min.
- Implemented AWS automation to cut down the production update window by 50% and eliminate human dependencies by 90%.
- Converted existing manual deployments to reproducible idempotent processes in the CD pipeline.
- Performed vulnerability scans against internal system at a different level with different tools: Cloud Conformity/Rapid 7/Amazon Inspector and applied report with remediation.
- Planned, migrated and managed On-Premises Atlassian stack to Atlassian Cloud.
- Connected Okta SAML/SSO with all internal/external services.

TP IT Solutions PTY LTD

Apr 2016 - May 2019

Technical Support Engineer

I supported day-to-day operations of the company and all the customers by proactively identifying problems and analyzing future needs.

- Performed all systems administration duties, including configuration and maintenance of business services on both Windows and Linux-based, physical and VMware environments.
- Automatic provisioning of enterprise infrastructure and application environment through Gitlab, Terraform, Ansible and PowerShell in multi-stack instances.
- Managed and validated auto-restored backups with PowerShell scripting.
- Designed and implemented High Available AWS solutions for clients with Auto Scale EC2, ELB, Amazon RDS and S3.

Sichuan S.Y.S Software System Co.,Ltd

Nov 2013 - Feb 2016

Linux Engineer

I managed over 1200 RHEL virtual machines on VMware vSphere infrastructure of more than 250 servers located in three different data centres.

- Dedicated project manager with responsibility for Linux automation platform deployment, leading a team of five technical people.
- Provided Level 2 and Level 3 support for business-critical systems.
- Planned a disaster recovery strategy with the standard of three data centres.
- Analyzed multi-dimensional system issues including performance tuning, kernel panic trouble-shooting, application trouble-shooting, resource allocating, and system security enhancement.

Talend

Apr 2012 - Nov 2013

IT Specialist

I was responsible for management, strategy and execution of IT infrastructure in Talend Beijing Office.

- Administrated over 300 Centos/Ubuntu mixed virtual machines on VMware vSphere infrastructure of more than 20 servers.
- Participated in testing and operating OTRS IT management system, providing improved customer SLA for internal staff with supporting and tracking.
- Experienced in agile development and configuration management technologies such as Kickstarts, Cobbler and Ansible.
- Managed and maintained VMware vSphere clusters.

Chongqing Dongxiang Medical Apparatus and Instruments Co., Ltd

Aug 2008 - Apr 2009

IT Engineer

Solo engineer managed all Linux servers and IT environment.

Education

The University of Texas at Arlington **Masters in Computer Science (incomplete)**

Dec 2009 - Dec 2011

Chongqing University of Post and Telecommunications **Degrees in Electrical and Electronics Engineering**

Dec 2004 - Dec 2008