VICTOR **LIN**

Millbrae, CA
206.446.7616
swissashley@gmail.com
LinkedIn Github Victorlin.us

>LANGUAGES AND TECHNOLOGIES

- **Proficient:** AWS, K8s, IaC, Databases, IAM, Security, Compliance, Java, Python, PHP, JS, ReactJS,, SQL

>PROFESSIONAL EXPERIENCE

Houzz | Cloud Engineering Manager, Core Infra | Palo Alto, CA   2020 - Present

My mission is to continuously improve our infrastructure stability, and uptime of the complex underlying subsystems that power our applications at scale, and my primary focus is to enhance our cloud infrastructure's efficiency, performance, and cost-effectiveness while championing simplification and automation. I manage and lead a team of 6 Cloud Infrastructure Engineers, provide guidance, mentorship, set clear goals, and support to align with the department's and organization's overall strategy.

- Led cross-functional collaboration efforts such as DB migration from Self-hosted MySQL clusters to AWS RDS and Kubernetes migration from Kops clusters to AWS EKS, working closely with development, operations, and QA teams to ensure seamless delivery of mission-critical projects under tight timelines.
- Cost efficiency and optimizations in AWS to bring down our annual bill by 20% with efforts in >90% RI + utilization, resizing instance types, Kubernetes Cluster autoscaling with Karpenter, spot instance utilization, EBS GP3 conversion, Graviton conversion, S3 lifecycle policy reinforcement, etc.
- Drove continuous improvement initiatives to enhance our cloud infrastructure's efficiency, such as managing our infrastructures with Terraform, delivering Kubernetes deployments through ArgoCD, and managing configuration management of our compute workloads through Ansible/AWX.
- Improved Security and Compliance with efforts in Ubuntu22 upgrade, instrumented AWS services (GuardDuty/Inspector/SecurityHub/IAM/SSO), reinforced Golden Image pipeline with CVE remediation.

Houzz | Sr. Software Engineer, Productivity/Core Infra | Palo Alto, CA   2016 - 2020

- Migrated monitoring system from OpenTSDB to Prometheus/Thanos stacks on Kubernetes clusters.
- Instrumented DataGuard to protect personal & sensitive data at SQL/Thrift/GQL layers, protecting millions of personal data from exposing to the public.
- Implemented Spam Detection and Treatment pipeline for Houzz users, professionals and images, and caught ~300k spam incidents since launched.
- Architected and built Bot Mitigation Flink pipeline to detect abnormal user activities on the site.
- Instrumented Distributed Tracing System: created Java, PHP and JS Zipkin clients and instrumented them for microservices monitoring. Integrated usage results with Regression detection pipelines.
- Built user data request/deletion pipelines, and the Consent Management Application to comply with GDPR regulations with React, Thrift, PHP & RQ.

Headway Technologies, Inc. | Software Engineer | Milpitas, CA   2011 - 2016

- Built a web-based reporting dashboard with JavaScript, PHP, HTML5 and CSS3 to monitor tool health status in real-time, reducing equipment downtime by 10 - 20%.
- Automated manual schedule-dependent process data reporting system utilizing Python and Visual Basic which saved the company ~$390,000 annually.
- Developed process control system utilizing Java, SWT, Jface and SQL to increase wafer yield by ~30% by handling communication between 200+ manufacturing equipment and Oracle databases.

Telecom Technologies Services Inc./T-Mobile | RF Engineer | Washington, DC   2010 - 2011

>EDUCATION

Master of Science Engineering, *University of Pennsylvania*   2010
Bachelor of Science Engineering, *National Chiao Tung University*   2006

>CERTIFICATES, LEADERSHIP, AND AWARDS

Certificate for Running Containers on AWS EKS, *AWS Training* | **link**   2023
Certificate for AWS Cloud Architect, *Udacity Nanodegree* | **link**   2021
Certificate for Oracle DB Associate, *Oracle University* | **link**   2014
President of Taiwanese Student Association, *University of Pennsylvania*   2009 - 2010
Provost Sergeant in Military Police, *Taiwan Army*   2006 - 2007
Winner of SP Creativity Contest - Barrier-Overpassing Carrier, *National Chiao Tung University* | **patent**   2006