VICTOR **LIN**

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

> TECHNICAL PROFICIENCIES

- AWS, EKS, Observability, IaC, Databases, ETL pipelines, SRE, Cost Efficiency, Security & Compliance

---

> PROFESSIONAL EXPERIENCE

My mission is to build and evolve a secure, scalable, and cost-effective Cloud and Data infrastructure that supports Houzz products and analytics at scale. I focus on driving reliability, efficiency, and developer empowerment across AWS, Kubernetes, and our Data platforms. I lead 2 teams of 9 Core and Data Infrastructure Engineers, setting clear goals and providing strategic guidance to align our work with company-wide priorities.

Houzz | Sr. Engineering Manager, Cloud Engineering | Palo Alto, CA　　　　　2024 - Present

- Drove company-wide migration from Kops to AWS EKS, standardizing infrastructure with Terraform and ArgoCD and introducing Karpenter and Istio to modernize Kubernetes at scale. Achieved 35% annual AWS cost reduction through RI optimization, spot and Graviton adoption, GP3 conversion, autoscaling, etc, while sustaining >99.9% availability.
- Led AI adoption of OpenCode to standardize AI-assisted engineering workflows, converting repetitive tasks (PR reviews, scaffolding, incident triage) into reusable, version-controlled skills.
- Implemented rate limiting and tarpitting at the CDN and istio layers using client fingerprints, including IP, JA3, JA4, and ASN to mitigate DDoS attacks and aggressive crawlers, improving site uptime.
- Enhanced the reliability of key data platforms, including Trino, Redash, Airflow, and EMR, and strengthened the event processing pipeline by optimizing Filebeat, MSK, and Flink—resulting in more robust ETL workflows and improved data quality.
- Established and led strategic partnerships with technology vendors (AWS, Fastly, HashiCorp, Snowflake, MonteCarlo, IBM, etc.), aligning roadmaps and driving collaboration through regular technical syncs.

Houzz | Engineering Manager, Core Infrastructure | Palo Alto, CA　　　　　　2020 - 2024

- Led cross-functional efforts to modernize MySQL clusters, including migrating from self-hosted MySQL to AWS RDS and upgrading the version from 5.7 to 8.4, collaborating closely with development, operations, and QA teams to ensure seamless delivery of mission-critical projects.
- 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 via Ansible/AWX.

Houzz | Sr. & Staff Software Engineer/Tech Lead, Core Infrastructure | Palo Alto, CA　　2016 - 2020

- Migrated monitoring system from OpenTSDB to Prometheus/Thanos stacks on Kubernetes clusters.
- Implemented Spam Detection and Mitigation pipeline for Houzz users, professionals and images, and identified 100k spam incidents annually with minimum false positives.
- Instrumented Distributed Tracing System: created Java, PHP and JS Zipkin clients and instrumented them for microservices monitoring. Integrated usage results with Regression detection pipelines.
- Improved Security and Compliance with efforts in Ubuntu22/IMDSv2 upgrades, instrumented AWS services (GuardDuty/Inspector/SecurityHub/IAM) and Golden Image pipeline with CVE remediation.

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

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

> LEADERSHIP, VOLUNTEERING, CERTIFICATES, AND RECOGNITIONS

Superhero Alumni Ambassador, *University of Pennsylvania* | **link**　　　　　2019 - Present
Certificate for Running Containers on AWS EKS, *AWS Training* | **link**　　　　　2023
Annual Best Manager Recognition, Houzz　　　　　　　　　　　　　　2022 - 2023
Certificate for AWS Cloud Architect, *Udacity Nanodegree* | **link**　　　　　　　2021
President of Taiwanese Student Association, *University of Pennsylvania*　　　　2009 - 2010
Winner of SP Creativity Contest - Barrier-Overpassing Carrier, *National Chiao Tung University* | **patent**　　2007