

ANDY CHEN

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SUMMARY

A **practical senior software engineer**, 4 years tenant at Turo, day-to-day hands-on experience in container orchestration with **Kubernetes/EKS**, provision AWS resources with **Terraform**, and establishing GitOps process with the latest toolchains such as **ArgoCD**, manage and operate service mesh with **Istio**.

Holding Certified AWS Solutions Architect, Certified Kubernetes Administrator(CKA)/Certified Kubernetes Security Specialist (CKS), Certified Terraform Associate, and Linux Foundation Certified System Administrator. **I am looking to join a team to work on improving developer experience, building scalable cloud infrastructure, and process automation.**

PROVEN TECHNICAL SKILLS

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|-----------------------|--|
| Cloud Natives | Microservice architect with docker/ Kubernetes , Kafka /streaming architect, Istio Service Mesh |
| SRE/DevOps | Certified AWS Solutions Architect, Certified Kubernetes Administrator (CKA), Certified Kubernetes Security Specialist (CKS), CICD pipelines, Certified Terraform Associate, ArgoCD/ArgoRollouts , Newrelic, Prometheus, Linux Foundation Certified System Administrator |
| Agile Full-stack | RESTful/ GraphQL API, Express, MongoDB/SQL, React , Scrum Master (PSM I) |
| Programming Languages | Typescript/Nodejs, Golang, Bash scripts, Python |

EXPERIENCE

Turo, San Francisco — **Senior Software Engineer - DevOps/Cloud Services Team** 06/2020 - present

- Authored and owned all internal Terraform modules and worked with the IT/security team to provide enterprise-grade infrastructures.
- Migrated 30+ microservices from self-host cluster to EKS and established internal GitOps culture with ArgoCD, Github actions, and Terraform.
- Built and managed all 10+ Kubernetes clusters and 50+ services across all environments and troubleshooting and maintaining clusters daily.
- Introduced Service mesh to the team, provisioned and operated istio in all clusters, and reduced SLA from 70 mins to 10 mins with Argo Rollouts and traffic management
- Managed AWS infrastructure and database migration and enabled cross-account access for multiple AWS resources/DB accesses

- Improved monitoring velocity with Prometheus/Newrelic APM and Pagerduty Alerts

Minted LLC, San Francisco — Senior Infrastructure Engineer - Architecture

03/2019 - 04/2020

- Authored Kafka python/typescript client library used by all engineers across the engineering department and managed AWS MSK clusters with 100 RPS.
- Owned the overall protocol buffer development process of compiling, testing, and deploying, and drove proto3 migration by leveraging "prototool", Bash scripts, and dockers.
- Configured Ansible YAML files and refactored Helm charts to scale Flink/Beam data pipeline from one to N cluster and prepared chaos engineering by enabling high availability mode.
- Improved internal tooling and speeded up Jenkins continuous testing/deployment pipelines by 5 times.

Block Node Service Inc. San Mateo — Founder

Oct. 2018 - March 2019

- Led BNS project and graduated as top 3 of "the most fundable project" voted by hundreds of VCs on Demo Day. Completed Hero Training Program and was nominated as "the most positive student" by Tim Draper.
- Leveraged Docker and AWS CloudFormation to speed up the full-node initial process, and successfully decrease the usual full-node hosting DevOps from 3 weeks to 15 seconds.
- Distributed stable service globally with CloudFront and Route53, successfully cut server usage by 60%, and decreased responding time by 50%.
- Developed a serverless, stateless architecture to deliver the first-of-its-kind full-node monitoring service and won the top 3 as "the most fundable project" on Draper Demo Day in Fall 2018.

Andysign Studio, Mountain View — Freelance Web Developer

Oct 2014 - Sept. 2018

- Contracted with 8 clients to develop static websites including Groove Trend and Swallet, and Taiwanese Volunteer Group with about 1K daily visitors.
- Implemented A/B testing for UI elements, heatmap analysis on user behaviors, and website SEO leading to a 100% increase in traffic and earning a 100% satisfaction rate from clients.

EDUCATION

University of California, Berkeley — Bachelor of Science, Cognitive Science

06/2016 - 07/2018