

# ANDY CHEN

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## SUMMARY

A senior **DevOps/Full-stack engineer**, with proven experience of event streaming architecture with **Kafka**, containerized infrastructure in **Kubernetes/EKS**, provision configuration with **Terraform**, and kubernetes continuous-deployment process with **ArgoCD**. I currently hold **Certified AWS Solutions Architect Associate**, **Certified Kubernetes Administrator**, and **Certified Terraform Associate**. I am looking to join a team to work on improving developer experience, building scalable cloud infrastructure, and process automation.

## PROVEN TECHNICAL SKILLS

|                  |   |
|------------------|---|
| Infrastructure   | Docker/ <b>Certified Kubernetes Application Developer</b> , <b>Kafka</b> /stream-based architect, <b>Protocol Buffer</b> Data model design, gRPC, <b>Certified AWS Solutions Architect</b> , <b>Flink</b> /Beam/Data Pipeline |
| SRE/DevOps       | TravisCI/ <b>Teamcity</b> , <b>Certified Terraform Associate</b> , <b>Certified Kubernetes Administrator</b> , <b>EKS</b> Prometheus, GNU make, ArgoCD  |
| Agile Full-stack | <b>RESTful/GraphQL API</b> , <b>Express</b> , <b>MongoDB/MySQL/PostgreSQL</b> , <b>React</b> , Redux, MobX, Gulp, Webpack, RWD, TDD, <b>Certified Professional Scrum Master (PSM I)</b>                                       |
| Languages        | <b>Typescript/Nodejs</b> , <b>Bash scripts</b> , <b>Python</b> , Golang, PHP, JAVA  |

## EXPERIENCE

### Turo, San Francisco — Senior Software Engineer - DevOps

06/2020 - present

- Automated AWS access key decryption process in Terraform Cloud, improved AWS subaccount modules.
- Create, manage and upgrade EKS(Kubernetes) cluster, AML, add-ons and improved EKS Terraform module.

### 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 Francisco — Lead DevOps Engineer

10/2018 - 03/2019

- Leveraged Docker, Terraform, and Ansible to speed up the full-node initial process, then decrease the usual full-node hosting DevOps lifecycle from 3 weeks to 15 seconds.
- Monitored and distributed scalable full node service globally on AWS by cutting server bill by 60%, and built the monitoring service with AWS Cloudwatch.
- Developed a serverless, stateless architecture to deliver the first-of-its-kind full-node monitoring service and brought the project to be "the top 3 most fundable project" on DraperU Demo day in Fall 2018.

**Bodhi Foundation, San Mateo — Senior Infrastructure Engineer**

05/2018 - 10/2018

- Migrated the whole React UI library from redux to MobX architecture in 4 weeks.
- Built the prototype of qinfura, a full node service for QTUM ecosystem.
- Developed and audited production-ready complex solidity smart contracts on QTUM blockchain.
- Introduced style-checking linter and coordinated with teammates to improve the collaboration cycle and speed up the development process.

**Yeah Education, Berkeley — Lead Fullstack Engineer**

12/2015 - 04/2017

- Led a development team of 4 engineers to develop a full-stack web-based application.
- Migrated codebase from angular 1.6 to React 15 in 3 months and migrated existing RESTful API to GraphQL-RESTful hybrid API.
- Scaled business 20 times to 2M annual revenue in 2016 and led the company to join Berkeley-owned Skydeck incubator and push the company to become UC Berkeley's only official admission partner.

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

06/2016 - 07/2018

The first and only student completing all 3 blockchain courses (Blockchain for Developers, Blockchain Lab, Blockchain Fundamental). Certificate in Entrepreneurship & Technology from SCET and served as Tech Chair in Senior Class Council 18. Completed courses included Data Vis., Computer HCI, Cognitive Science, Linguistics, Data Structure, Discrete Math, and Machine Learning.

**YC Startup School Online — Certificated Entrepreneur**

09/2018 - 10/2018

Launched DecoHash, a Hashtag data mining service built with AWS Lambda, route53, s3, and elasticsearch then graduated from YS Startup School Online in 10 weeks.

**PROJECTS/MENTORSHIPS****NodeSchool SanFrancisco Chapter**

Serve as regular monthly mentor at NodeSchool SF and Oakland chapter for more than 3 years, mentoring topics in everything about NodeJS and general software engineering. (before COVID19)

**hodl dex** - an exchange for ERC20 token - HODLC

Work directly with the CEO to architect and build the crypto exchange from ground up, built with React/Redux/web3/solidity and support multiple wallet connections and multiple languages. Debug and on-call on a daily basis. Serve for 10K+ users. (continue growing)

**Leptin** - A PoW blockchain completely in NodeJS

Built a Proof of working blockchain completely in NodeJS, supporting mining with dynamic difficulty, wallets, transactions, using the technology of WebSocket, secp256k1 encryption.

**mern** - popular MERN stack application boilerplate

A MERN stack application boilerplate, built with MongoDB, Express, React/Redux, Nodejs. With continue iteration within the past 3 years, it has been one of the most popular MERN-stack starter kits on the internet.