

# ANDY CHEN

[amazingandyyy@gmail.com](mailto:amazingandyyy@gmail.com) | [linkedin.com/in/amazingandyyy](https://www.linkedin.com/in/amazingandyyy) | [github.com/amazingandyyy](https://github.com/amazingandyyy)

## SUMMARY

A senior **DevOps/Full-stack engineer**, with proven experience of event streaming architecture with **Kafka**, container orchestration in **Kubernetes/EKS**, provision configuration with **Terraform**, and GitOps 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	Microservice architect with docker/ <b>Kubernetes</b> , <b>Kafka</b> /streaming architect, Protocol Buffer Data model design, gRPC
SRE/DevOps	Certified <b>AWS</b> Solutions Architect, Certified Kubernetes Administrator, CICD pipelines, Certified <b>Terraform</b> Associate, Newrelic, Prometheus, <b>ArgoCD</b>
Agile Full-stack	RESTful/ <b>GraphQL</b> API, Express, MongoDB/SQL, <b>React</b> , Scrum Master (PSM I)
Languages	Typescript/Nodejs, Golang, Bash scripts, Python/PHP/JAVA

## EXPERIENCE

### Turo, San Francisco — Senior DevOps Engineer

06/2020 - present

- Build and own all Terraform modules, migrated 30+ microservices from self-host cluster to EKS
- Provisioned and administrated 6 Kubernetes clusters, regularly upgrade core service/plugins including, CoreDNS, Ingress, CNI, RBAC setup, k8s controllers
- Managed AWS infrastructure, database migration and enable cross-account access for multiple AWS resources/DB accesses
- Improved monitoring velocity with Newrelic alerts/APM
- Established internal GitOps culture with ArgoCD, Github actions, and Terraform

### 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.

## **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.
- 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.

## **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.

### **Top 3 of Draper University 2018 cohort**

Developed a serverless, stateless architecture to deliver the first-of-its-kind full-node monitoring service

### **YC Startup School 19 Certificated Entrepreneur**

Launched DecoHash, a Hashtag data mining service built with AWS Lambda, route53, s3, and elastic stack

## **PROJECTS/MENTORSHIPS**

**mern** - a famous popular MERN stack application boilerplate

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

**Leptin** - A PoW blockchain built 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.

### **NodeSchool SanFrancisco Chapter**

Serve as a 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 the 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)