

# ANDY CHEN

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## SUMMARY

A senior full-stack engineer turned **infrastructure engineer**, with proven experience of **event streaming architect with Kafka**, **containerized infrastructure in Kubernetes**, and **data model design in protocol buffer**. My passion for cloud computing leads me to earn **AWS Certified Solutions Architect Associate (AWS-CSA)** issued by AWS and **Certified Kubernetes Application Developer (CKAD)** issued by Linux Foundation. Currently, I am pursuing AWS Certified Solution Architect Professional and Confluent Certified Developer for Apache Kafka, and Terraform Associate Certification, meanwhile looking to join a team to work on cloud service infrastructure and event streaming architecture.

## PROVEN TECHNICAL SKILLS

Infrastructure	Docker/ <b>Kubernetes</b> /Helm, <b>Kafka</b> /stream-based architect, <b>Protocol Buffer</b> Data model design, gRPC, <b>AWS</b> Solutions Architect, <b>Flink</b> /Beam/Data Pipeline
SRE/DevOps	TravisCI/Jenkins, <b>Prometheus</b> , <b>Chef</b> , <b>Puppet</b> , <b>Terraform</b> , GNU make, Unix script
Full-stack	RESTful <b>API</b> / <b>GraphQL API</b> , <b>Express</b> , <b>MongoDB/MySQL/PostgreSQL</b> , <b>React</b> , Redux, MobX, Gulp, Webpack, RWD, TDD
Languages	Javascript, <b>Nodejs</b> , <b>Unix scripts</b> , <b>Golang</b> , Python, PHP, JAVA

## EXPERIENCE

### Minted LLC, San Francisco — Senior Infrastructure Engineer - Architecture 03/2019 - 04/2020

- Authored Kafka python/typescript client library used by all engineers cross the engineering department and managed AWS MSK clusters with 100 RPS.
- Owned overall protocol buffer development process of compiling, testing and deploying, and drove proto3 migration by leveraging prototool, Bash scripts, and dockers.
- 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 Cloud Architect 10/2018 - 03/2019

- Leveraged Docker, AWS CloudFormation to speed up the full-node initial process, 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.

### Bodhi Foundation, San Mateo — Senior Blockchain 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 — Founding CTO**

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.

## **Andysign Studio, Mountain View — Freelance Web Developer**

10/2014 - 09/2016

- 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 earned a full satisfaction rate from clients.

## **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.

#### **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.

#### **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.

#### **scratchese toolchain** - A javascript toolchain purely built from the ground up

A javascript toolchain purely built from the ground up, including a nodemon like NodeJS executor, a husky like git hook, a NodeJS server framework compatible with Express.