

# Mitchell Huang

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## SUMMARY

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- Generalist software engineer with 8+ years of experience of developing Go and Node.js backend services.
- Infrastructure engineer with 6+ years of Kubernetes platform engineering and operations experience.

## EXPERIENCE

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### Coinbase

**Salt Lake City, UT**

*Staff Software Engineer*

*August 2023 – March 2025*

- Technical lead for a multi-year, cross-functional project to develop a Kubernetes operator for deploying, orchestrating, and managing stateful blockchain node infrastructure.
- Migrated 35+ blockchain nodes (incl. “Tier 0” assets Bitcoin, Ethereum, Solana) representing \$XXB/month of production cryptocurrency inflow/outflow to the operator.
- Reduced cloud provider spend by \$XXM/year, deployment times by 90%, and an entire category of Sev1 incidents by migrating blockchain infrastructure to Kubernetes.
- Infrastructure lead of the Coinbase Exchange (RAFT) trading engine migration to Kubernetes.

### Coinbase

**New York, NY**

*Senior Software Engineer*

*January 2022 – July 2023*

- Co-lead of the Compute infrastructure team that built out Coinbase’s K8s infrastructure from 0→1, culminating in the company-wide migration of 1,000+ microservices to EKS.
- Implemented several features in the IDP/CD layer to deploy stateless application workloads to clusters.
- Implemented tooling to consistently deploy infra workloads to clusters at scale (100+ clusters, 10,000+ nodes).
- Engaged in bi-weekly security reviews of Kubernetes architecture with partner infra security teams.
- Participated in team on-call rotation for 24/7 availability of the Kubernetes platform for 2,500+ engineers.

### BitMEX

**San Francisco, CA**

*Kubernetes Engineer*

*August 2020 – December 2021*

- Operated an in-house Kubernetes platform, managing both control and data planes across 5+ clusters, 200+ nodes, 3+ AWS accounts to support >\$4B in daily cryptocurrency derivatives volume.
- Upgraded Kubernetes clusters from v1.17 to v1.21, migrated container runtime from Docker to containerd, and validated clusters with Sonobuoy conformance testing across Flatcar and RHCOS.
- Simplified authentication and authorization flow to clusters using Kubelogin and Duo SSO.

### Ginger Labs

**San Francisco, CA**

*Software Engineer*

*August 2018 – July 2020*

- Developed backend services for Twobird (a productivity app) using Node.js, TypeScript, and GraphQL, including a real-time collaborative notepad powered by WebSockets, Redis Pub/Sub, and CRDTs.
- Served as the technical lead for overall DevOps strategy including the creation and maintenance of staging and production Kubernetes clusters on Google Cloud (GKE) and CI/CD pipelines on CircleCI.

## SKILLS

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- **Programming Languages:** Go, TypeScript, Python, Ruby, Java
- **Tools and Frameworks:** Git, Terraform, Kubectl, Controller-runtime, Client-go
- **Languages:** English (native)

## EDUCATION

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**University of California, Berkeley**

**Berkeley, CA**

**Activities:** Blockchain at Berkeley, Cal Ski & Snowboard Club

*August 2014 – May 2015*