

# 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 – Present

- 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) representing \$XXB/month of production cryptocurrency inflow/outflow to the operator with zero downtime.
- Reduced blockchain node deployment times by 90% eliminating an entire category of Sev1 incidents.
- Reduced cloud provider spend by \$XXM/year by migrating blockchain infrastructure to Kubernetes.

### Coinbase

New York, NY

Senior Software Engineer

January 2022 – July 2023

- Key member of the Compute team that built out Coinbase’s Kubernetes infrastructure from 0→1, culminating in the company-wide migration of 1,000+ microservices to K8s.
- Implemented several features in our 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 our Kubernetes architecture with partner security teams.
- Participated in team on-call rotation for 24/7 availability of our 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.
- Streamlined 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 DRI 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.
- Re-architected the user authentication system to use stateless JWTs, simplifying session management.

## SKILLS

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- **Programming Languages:** Go, TypeScript, Python, Ruby, Java
- **Tools and Frameworks:** Git, Terraform, Kubebuilder, 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