Mitchell Huang

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SUMMARY

- Staff software engineer with deep knowledge of distributed systems, platform engineering at scale, and the full software development lifecycle (SDLC), from design through deployment and operations.

EXPERIENCE

Coinbase **Salt Lake City, UT**

Staff Software Engineer *August 2023 – March 2025*

- Technical lead for a multi-year, cross-functional project to build and deploy a custom Kubernetes operator for orchestrating highly stateful blockchain node infrastructure.
- Migrated 35+ blockchain nodes (incl. Bitcoin, Ethereum) representing billions (USD) per month of production cryptocurrency inflow/outflow to the operator.
- Reduced cloud provider spend by millions per year, deployment times by 90%, and eliminated an entire category of Sev1 incidents by migrating blockchain infrastructure to the operator.
- 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 Kubernetes infrastructure from 0→1, culminating in the company-wide migration of 1,000+ microservices to AWS 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 billions (USD) per day of crypto 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).

SKILLS

- **Programming Languages:** Go, TypeScript, Python, Ruby, Java
- **Tools and Frameworks:** Git, Terraform, Kubebuilder, controller-runtime, client-go
- **Languages:** English (native)

EDUCATION

University of California, Berkeley **Berkeley, CA**

Activities: Blockchain at Berkeley, Cal Ski & Snowboard Club *August 2014 – May 2015*