

Drew Holbrook

✉ drewholbrook@gmail.com 📍 CO, United States 🔗 dpholbrook.github.io

Summary

I'm a software engineer specializing in cloud-native architectures, distributed systems, and security-driven infrastructure. I built a company-wide IAM service at Medable and developed Ekko, an open-source real-time messaging framework.

Work Experience

2021 – present

Backend Developer, Platform Infrastructure Team

Medable 📄

- Led the development of a company-wide IAM service used across all new applications and services, ensuring secure authentication & authorization for users
 - Implemented cloud identity & security features including:
 - Authentication (password-based, SSO via OIDC, JWT)
 - Authorization (RBAC, policy enforcement)
 - Session & Token Management
 - Data Security (encryption, key rotation)
 - Audit Logging and Security Compliance
- Owned, scaled, and deployed a distributed data validation service that compared and reconciled records across multiple databases in real-time to verify data consistency across environments during deployments
- Collaborated with teammates to maintain the company's core API and develop new platform services
- Integrated SSO authentication into the company's legacy platform using the OIDC protocol, ensuring secure migration to modern identity standards

2021

Co-Creator, Software Engineer

Ekko 📄

- Built the WebSocket server using Node.js, Socket.IO, and Redis
- Designed the AWS cloud infrastructure to support tens of thousands of WebSocket connections (Application Load Balancer, ECS Fargate, S3, ElastiCache, Lambda)
- Containerized the server code for deployment (Docker, Elastic Container Registry)
- Automated the infrastructure deployment using AWS Cloud Development Kit
- Built an easy-to-use CLI tool for AWS credential configuration, infrastructure deployment, teardown, and Lambda management (oclif, JavaScript, AWS SDK)
- Load tested the real-time service to simulate 50,000 concurrent connections publishing 300,000 messages per minute (artillery.io, EC2, CloudWatch)
- Co-authored Ekko's case study: ekko-realtime.com 📄

Skills

Back-End

Node.js/Express,
PostgreSQL, MongoDB,
REST APIs

Front-End

JavaScript,
React/Redux,
Handlebars, HTML/CSS

Tooling

Git/GitHub/GitLab,
Docker,
Linux

Cloud

AWS,
GCP,
Kubernetes

Education

2019 – 2021

Launch School

 📄

Mastery based learning for Software Engineers

2004 – 2008

B.A. Economics

University of Vermont