

About Me

I am an ops-minded software developer with decades of industry experience, ranging from small environments with a handful of servers to large scale systems involving thousands of servers.

These days, I'm primarily a Go/golang developer building server applications and client tooling for systems automation. I find particular joy in bringing old code bases up to modern standards, making them sustainable and stable. I am also passionate about automating away any toil and drudgery in human processes. I am a strong proponent of radical simplicity and lightness, striving for solutions that will run effortlessly with little to no long term maintenance.

I have significant experience with software/systems architecture and design, including gathering stakeholder requirements, writing requirements documents, and carrying them through implementation and production deployment.

For medical reasons, I must be a fully remote-only employee and I am not interested in management or other people leadership roles.

Employment History

Coreweave

April 2024 - present

Development of database and control surfaces to help programatically ensure compliance across the server fleet to corporate mandated firmware versions.

Technical and team leadership, including mentoring, project management, software architecture and design, and full-time coding. The team was responsible for a server application stack, written in Go/golang with gRPC, that interfaced with server management cards (BMCs) using Redfish to automate server deployments, maintenance, and sustaining operation of Coreweave's thousands of servers and DPUs.

Sabbatical

November 2023 - April 2024

Fastly

June 2023 - November 2023

DigitalOcean, LLC

October 2019 - February 2023

At DigitalOcean, my primary role was to architect, lead, and implement the collection of telemetry from every server and every infrastructure virtual machine in the DigitalOcean fleet. This data was made available to internal customers via REST, GraphQL, and gRPC APIs, as well as command-line tooling, and was used to drive outage detection, operational maintenance, and business reporting. Collection was performed using custom onboard software on every server in the fleet, as well as a global Redfish collector system. The data was then propagated across global highly available gRPC links and internal caching layers and ultimately stored in a SQL database. This project was implemented in Go/Golang, backed by MySQL 5.7, and deployed to a Kubernetes-based system.

My role as project/team lead also entailed requirements gathering and stakeholder management across the company, as well as mentoring and training members of the team.

Joyent, Inc

October 2017 - September 2019

At Joyent, I helped develop Conch, an API server, written in Perl, that processed and validated automated server hardware reports. This data was used to validate new datacenter builds and augments, ensuring the correct hardware was shipped, delivered, and installed. I also developed command-line tools in Go/golang called conch-shell and kosh that allowed datacenter operators to prepare build outs, monitor progress, and validate hardware reports.

- Conch API: <https://github.com/joyent/conch-api>
 - Conch Shell: <https://github.com/joyent/conch-shell>
 - Kosh: <https://github.com/joyent/kosh>
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Neustar, Inc

July 2017 - October 2017

Time Warner Cable

Mar 2010 - May 2017

Architected and led the implementation of IP-based live video distribution for the TWCTV iPad app, versions 1 and 2. *The application was subsequently awarded an Emmy Engineering Certificate.* Architected and implemented automation for video-on-demand content intake, transcoding, and distribution. This self-healing system handled over a thousand TV shows, movies, and advertisements daily with little to no human intervention. Architected and implemented automation for content metadata (title, description, ratings, artwork, etc) improvement.

Extensive on-call responsibilities, including incident management and authorship of post-mortem analyses

YouPorn / Midstream Media

May 2009 - Feb 2010

Singlesnet, Inc

Dec 2007 - Mar 2009

America Online

Feb 2003 - Oct 2007

Databuilt, Inc

Dec 2001 - Feb 2003

The Creative Group

May 2000 - Dec 2001

Education

- **Bachelor's Degree**