Daniel Belden

Engineer & Lead

117 Warmingham Lane
Middlewich
CW10 0HL

+44 (0) 7528 633 850
me@danbelden.com
danbelden.com

Summary

Hey, my name is **Dan** and I'm a software engineer & tech lead with skills in backend engineering for cloud native environments. My recent experience has focussed around microservice development in Go, primarily for K8s.

I've worked many engineering roles throughout my career; I've held Junior, Senior, Lead & Principal Engineer roles over my career; plus a short stint as a startup CTO.

I currently work as a Principal Software Engineer as part of **F5's remote** engineering team; leading a team of about **5-15 engineers** in building services at scale. Numbers have varied based on projects I have worked on.

Experience

F5 Networks Ltd (F5) / Principal Engineer

Jan 2023 - Present, Remote

Golang, REST, Docker, Gitlab, Kubernetes, Postgres, Kafka, Prometheus, OTEL, AWS/On-prem

My day to day job revolves around building DDOS orchestration systems for enterprise customers of F5. That building is primarily done with a toolbox of; Golang, SQL/Postgres, Redis, Kubernetes & GitLab. The system itself is composed of multiple Go microservices integrated across a k8s service mesh architecture; running on multi-on-prem k8s (bare metal) clusters across the world. F5 leans a little on AWS for some peripheral dependencies, mainly for ease of replication management; they are RDS, EC2 and ECR.

Ori Industries Ltd (Ori) / Contract Go Engineer

May 2022 - Jan 2023, Remote

Golang, REST, gRPC, Docker, GitHub Actions, Kubernetes, Postgres, Kafka, Multi-cloud

In this role I primarily focussed on building Golang gRPC microservices that made up Ori's backend service mesh. Deployment was enabled by Docker, Github Actions CI, Helm and FluxCD. Other misc tech involved postgres, kafka, terraform & multi-cloud infra orchestration.

PaymentSense Ltd (Dojo) / Contract Go Engineer

September 2021 - March 2022, Remote

Golang, REST, Prometheus, Grafana, Docker, TeamCity, CircleCI, GAE, GKE, TypeScript, Kubernetes, GCP

In this role I split my time between working on RESTful Go development, a small amount of TypeScript development and system architecture (planning). The backend was mostly Go and Typescript, with TeamCity CI pipelines pushing to

GAE. The new ecosystem we were building towards when I left, was based on CircleCI pipelines pushing docker images to GCR; then using Helm charts to deploy them to GKE.

Mercari, Inc (Mercari US) / Contract Go/PHP Engineer

November 2018 - September 2021, Remote

PHP7, Golang, REST, gRPC, Prometheus, Grafana, Docker, CircleCI, GKE, Terraform, Kubernetes, GCP

My role involved backend software development on the Go gRPC gateway and microservice architecture running on GCP/GKE. They used continuous delivery with CircleCI pipelines to create GCR docker images. They were deployed to GKE via Spinnaker. Permissioning and infrastructure were managed by a large terraform project, with GitOps being at the heart of all development.

Mercari Europe Ltd (Mercari UK) / Lead Engineer

March 2017 - November 2018, London

PHP7, Golang, Docker, CircleCI, LAMP, LEMP, SQL, Solr, S3, GCD, ELK, GAE, Kubernetes, AWS, GCP

Day to day I worked on the core api, it was built on a basic MVC PHP framework called DietCake. This acted as an "api gateway" for their native and web apps. I also founded numerous sub-system microservices which were built on Symfony3 and Golang. The majority of data was persisted to a master/slave configured MySQL Database; but caches (Redis/Memcache), NoSQL (GCD) and search (SOLR, Algolia) were also leveraged based on use case.

Shareight Ltd (Octer) / Chief Technology Officer

April 2016- March 2017, London

PHP5, LXC, Capifony, Capistrano, Jenkins, Cloudflare, SQL, ELK, LEMP, LAMP, Linode

After 18 months of contracting with Octer, I was appointed their CTO to help manage the new event centric platform I had built. My initial responsibilities included mentoring and scaling their engineering team (2 backend, 1 frontend alongside myself). My role was mostly managerial and DevOps focussed, freeing the team to focus on application development.

Education

University of Manchester / BSc Computer Science

2008-2011, Manchester

I studied various modules including database design, software engineering and next generation web structure (semantic web). I graduated in the class of 2011.

References

Available on request.