Kubernetes for Application Developers
All Abilities - 1 day

About:

Explore Kubernetes from the app developer's perspective. Learn how to prepare workloads for Kubernetes while paying attention to best-practices. Hands-on labs covering Liveness Probes, Init Containers, CronJobs and more.

In this workshop, we will demonstrate the features of Kubernetes that enable end users - those who write and deploy applications to clusters - to move faster and more safely. The day is about exploration and discussion. We will cover many of the technologies and patterns in use today, empowering you to make the right decisions for your own environment. We will look at:

★   Kubernetes features needed to run applications professionally and at scale (Liveness and Readiness, ConfigMaps etc)

★   Cloud-native software engineering; configuring your applications to adhere to the 12-Factor methodology in a Kubernetes environment.

★   Deployment with Helm and on-cluster development with Skaffold.

★   Observability: Logging, Metrics, Distributed Tracing

There will be hands-on workshops writing and deploying simple applications to a GKE cluster.

Participant level:

Participants should be familiar with modern web applications and understand what they need to run in production. You should have dabbled with a local Docker development environment for one of your apps. A basic understanding of Kubernetes is preferred but not essential.