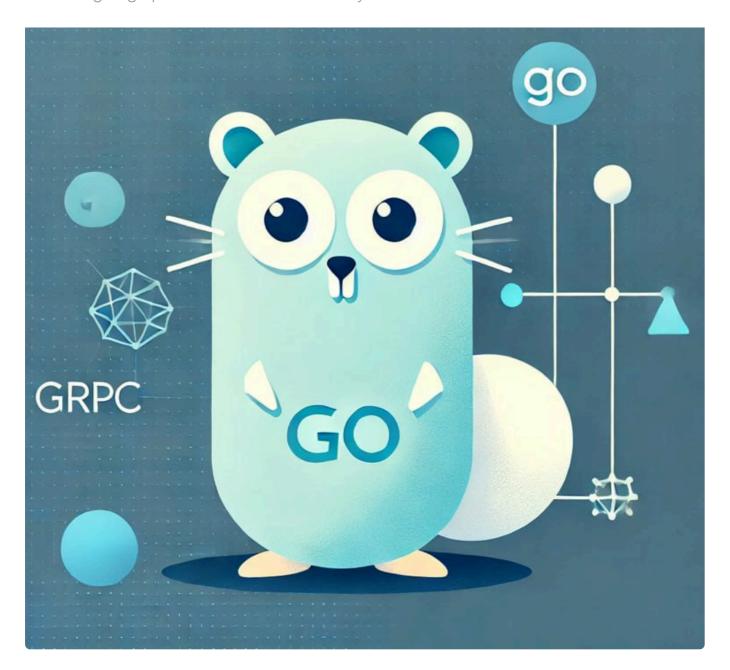
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Building Production-Ready Services with gRPC and Go

Course • 55 Lessons

gRPC is the modern, high performance way to communicate across services.

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- No filler content. Concise lessons with practical advice.
- A No experience with gRPC necessary. We start from the basics and finish with advanced topics.
- Guided exercises along the way.
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Wondering what's in the course?

Contents

Introduction to Protobuf, gRPC & Protoc



- **■** Defining a gRPC Service Contract
- **≡** Implementing a Server
- ≡ Error Handling Client & Server
- **=** Exercise Create your Own Application!
- **=** Exercise Solution
- Running a Server Correctly

gRPC Streaming

- **≡** Implementing Server Streaming
- **≡** Implementing Client Streaming
- **≡** Implementing Bi-directional Streaming
- **≡** Exercise- Create Your Own Streaming Application!
- **≡** Exercise Solution

- **≡** Exercise: Add mTLS to Your File Upload Application
- **=** Exercise Solution

Interceptors, Metadata & Authorization

- ☐ Interceptors Introduction, Client Interceptors, Server Interceptors
- **≡** Setting Deadlines/Timeouts
- API key Authorization via Interceptors
- Auth via CallCredentials
- ≡ Exercise: Add Interceptor to Parse JWT Information
- **=** Exercise Solution

Load Balancing in gRPC

- ☐ Client Service Config & Timeouts

Testing gRPC Services

- Making gRPC Requests via Postman
- Making gRPC Requests via Grpccurl
- □ Creating Unit Tests for RPCs Part 1 (Unary)
- ☐ Creating Unit Tests for RPCs Part 2 (Streaming)
- ☐ Creating Integration/end-to-end Tests for gRPC Services Part 1 (Unary)
- ☐ Creating Integration/end-to-end Tests for gRPC Services Part 2 (Streaming)
- **≡** Exercise Adding Unit Tests to our TODO Application
- **=** Exercise Solution

Containerising & Deploying to Kubernetes

- ₩ What is Kubernetes & What do I Need to do to Deploy There?
- **■** TLS & Automatic Certificate Renewal Using LetsEncrypt
- **≡** Exposing a gRPC Service Part 1 via LoadBalancer Service
- **Exposing a gRPC Service Part 2 via Ingress**

- **≡** Challenges With Maintaining A Large Number of Protobufs & What is Buf?
- **=** Example Protobuf Registry Walkthrough
- ≡ ConnectRPC Client Implementation for Web
- **≡** Buf Schema Registry & Dependencies Example Protovalidate
- **≡** Exercise Update our TODO Application to use ConnectRPC
- = Exercise Solution

Wrap Up

■ Thanks for Watching!

Frequently Asked Questions

Did we not answer your question? Contact us: hello@bytesizego.com

How long is the course?

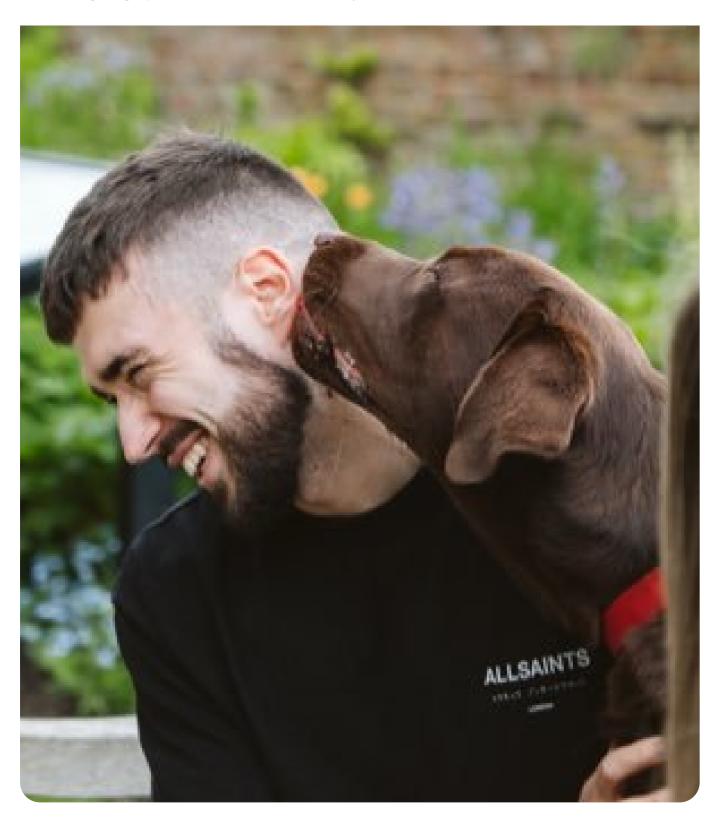
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About the Course Author

paced, hyper-growth startups, spanning across many different industries, including finance, cybersecurity, and the public sector.



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