

# API Design & Microservices Architecture

REST, GraphQL, gRPC. Design APIs that scale, write documentation, and build service-oriented architectures.

blootou.com | sales@blootou.com

---

## Program Overview

PRICE  
\$3,700

DURATION  
6 weeks

FORMAT  
Hybrid

LEVEL  
Intermediate

REST, GraphQL, gRPC. Design APIs that scale, write documentation, and build service-oriented architectures. This professional track is structured for adult learners who need practical, career-relevant depth without academic abstraction. Delivered as a hybrid experience, the course combines guided milestones, implementation reviews, and applied exercises aligned with modern AI, engineering, and technical leadership work.

## Outcomes

- Design APIs with clear contracts, versioning, and documentation.
- Choose between REST, GraphQL, and gRPC based on system needs.
- Understand microservice boundaries and service communication tradeoffs.
- Build APIs that are observable, maintainable, and scalable.

## Includes

- 6 hybrid weeks of API modeling and service architecture workshops.
- Documentation and versioning templates for production teams.
- System diagrams and event-driven architecture case studies.

- Practical exercises across REST, GraphQL, and gRPC styles.

---

## Syllabus

### WEEK 1

#### API Thinking and Service Boundaries

Define what belongs in an API contract and where service edges should live.

Topics: Resource modeling, Contracts, Boundary definition

### WEEK 2

#### REST and GraphQL Design

Compare paradigms and build practical interfaces for consumer teams.

Topics: REST patterns, GraphQL basics, Schema design

### WEEK 4

#### gRPC and Internal Platform APIs

Use high-performance contracts for internal services and strongly typed workflows.

Topics: Protocol buffers, Service contracts, Client generation

### WEEK 6

#### Documentation and Operability

Design APIs that teams can trust, version, monitor, and evolve safely.

Topics: OpenAPI, Observability, Versioning strategy

## Instructor

Owen Fraser

Owen is a platform engineer who designs service-oriented systems with a strong emphasis on clarity, operability, and API governance.

This Blotou Intelligence syllabus is an admissions overview for planning and evaluation. Final cohort dates, live session timing, assessments, and platform access details are shared in the welcome packet after enrollment.

---

Payment by Interac e-Transfer to sales@blootou.com | Blootou Intelligence Inc. | Blootou Intelligence Inc. · Vancouver, BC, Canada · sales@blootou.com