

# Carlos Olson

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Senior API & Platform Engineer specializing in enterprise-grade API platforms and cloud-native microservices using Go, Java/Spring Boot, Python, Kubernetes, Terraform, and AWS. I streamline fragmented microservice ecosystems, modernize legacy platforms, and deliver secure, scalable API architectures.

## EXPERIENCE

### Sr. API & Microservices Engineer – Contract (Multiple Clients)

Jun 2024 - Present

Provided senior-level backend, API, and platform engineering services for enterprise clients. All contract engagements listed represent non-overlapping, full-time roles.

Cross-Client Core Contributions (High-Level):

- Designed and modernized REST, GraphQL, and gRPC API platforms supporting analytics, operations, and internal tooling.
- Consolidated fragmented microservice ecosystems, reducing service sprawl and simplifying ownership domains.
- Architected and rebuilt critical Java/Spring Boot API services, improving scalability, security, and observability while aligning legacy systems with modern platform standards.
- Built cloud-native architectures using **Kubernetes (EKS)**, Docker, Terraform, GitOps pipelines, and AWS-native services.
- Introduced engineering standards for **API versioning**, **distributed tracing**, IaC, microservice patterns, CI/CD, and best practices across teams.
- Implemented lightweight AI-driven analysis agents to automate API contract validation, detect schema drift, and accelerate modernization of legacy REST/GraphQL/gRPC services.

### Developer III (Contract) - Health Trust

Feb 2024 - Jun 2024

- Analyzed ~26 services powering pricing, procurement, and data pipelines to identify fragmentation, duplication, and inconsistent taxonomy structures.
- Documented and standardized API boundaries across legacy monolithic components, proposing a migration path toward modular REST/GraphQL services to improve maintainability and integration reliability.
- Proposed consolidation plans and domain boundaries to unify multiple “sources of truth” into a reliable Postgres-backed architecture.
- Delivered analysis and architectural guidance that reduced data integrity issues and simplified long-term system maintainability.
- Designed a modernization approach for internal service APIs by identifying redundant REST endpoints across ~26 services and outlining a consolidated domain-driven API model to reduce inconsistency and operational friction.

### Sr. Enterprise Developer - Exiger

Mar 2023 - Oct 2023

- Reverse-engineered complex legacy services to document risks, anti-patterns, and scaling constraints.
- Provided architectural recommendations to improve maintainability and align acquired systems with Exiger's long-term product strategy.
- Supported DevOps and production teams, improving system reliability under strict uptime and delivery expectations.

### ITT Technical Institute (GPA 3.5)

Electrical Engineering Technology

March 2015

Capstone Project: Wireless Communication systems and power

**Languages & Frameworks:** Go, Java, Spring Boot, Python, FastAPI, Groovy, React, Angular, Vue, Node.js, Obj-C, C, ASM 51/8088

**API & Architecture:** REST, GraphQL, gRPC, API Gateway architecture, microservices, DDD, secure API design, event-driven architecture

**Cloud & Infra:** AWS (EKS, EC2, RDS, S3, IAM, API Gateway), GCP, Kubernetes, Docker, Terraform, GitOps (ArgoCD), CI/CD (GitHub Actions, Jenkins)

**Data & Storage:** PostgreSQL, MySQL, MSSQL/T-SQL, ElasticSearch, Cassandra, MongoDB, SQLAlchemy

**DevOps & Observability:** Container security, distributed systems, monitoring/observability, DevOps & SRE practices

**Skills:** SOLID, OOP, DDD, API Design, Functional Programming, Mobile Development, Frontend/Backend Development, DB Performance Analysis, Software/Hardware Prototyping, RDB and NoSQL, DB Design, IoT Systems Development, Practical TDD

## **Lead Sr. Developer - Ulta Beauty**

Jul 2022 - Mar 2023

- Led modernization of frontend + backend monolithic codebases into a semantically versioned microservices architecture.
- Drove improvements in performance, deployment workflow, and engineering practices across the promotions/sales engineering team.

## **Sr. Enterprise Developer - Great American Insurance**

Jun 2021 - Nov 2022

- Collaborated with Enterprise Architecture on underwriter tooling and backend service modernization.
- Provided API design and clean architecture guidance across multiple engineering groups.
- Guided teams on designing clean, purpose-bounded API interfaces for underwriter and carrier-service workflows, ensuring consistent contracts, versioning practices, and long-term service scalability.

## **Full Stack Developer - Kinetic Vision**

Feb 2020 - Oct 2020

- Delivered full-stack and backend solutions using Flask/Django, React, .NET, Terraform, k8s, Go, and dockerized environments.
- Built a Node.js/React IoT application with SQLAlchemy data models.

## **Middleware Admin / Full Stack Developer - Winsupply**

May 2017 - Feb 2020

- Automated infrastructure and internal tooling using **Python, Bash, Docker, and Kubernetes**, helping establish early DevOps practices and improving deployment consistency across engineering teams.
- Built and maintained backend services including a **Node.js WebSocket service** powering shipping and logistics workflows, improving internal operational efficiency and real-time visibility.
- Developed and supported internal developer tooling such as a **private npm registry**, Git workflows, and CI processes that increased engineering productivity and code quality.
- Collaborated with Infrastructure and DBA teams to streamline release processes, implement environment automation, and reduce manual operational overhead.
- Provided full-stack enhancements across multiple internal applications while raising engineering standards through code reviews, documentation, and best practices.

## **Early Career Experience (Condensed)**

**Jr. Software Engineer - Phisi** - Mobile and backend development across iOS/Android and Spring Boot/Cassandra systems.

**Jr. QA Engineer - Dotloop** - Supported full-stack QA workflows, backend troubleshooting, and SQL-based debugging.

**Network Technician - Premier Home Technologies** - Installed and configured network systems and device integrations.

**General Manager - Chipotle** - Led high-volume operations, staffing, and team management.