


CHRISTOPHER WONG

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 christopher-gw-wong

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Senior Software Engineer with career experience building large distributed systems and core platform infrastructure to enable both at-scale consumer products and scaling developer services.

Education

Northeastern University

B.S. Computer Science

Minor in Computer Engineering

Technologies

Languages

Go

Rust

Python

Node.js

Infrastructure / Tools

Amazon Web Services (AWS)

Kubernetes

Docker

Terraform

Pulumi

Concourse (CI/CD)

Grafana / Prometheus / Loki

OpenTelemetry

Frameworks

gRPC

Protobuf

React

Skills

Distributed Systems

Cloud Computing

Scalable microservices

Infrastructure-as-code

Databases

DynamoDB

Redis

MySQL

PostgreSQL

MongoDB

Experience

Apple - Health Special Projects

Senior Software Engineer (September 2022 - Present)

Lead development of a Cloud Infrastructure Platform and Core Services for low-latency, multi-region streaming applications

- developed planet-scale real-time Go services on AWS
- directed service architecture of a HIPAA-compliant API platform
- implemented a managed kubernetes compute environment with full monitoring, logging, metrics, and service discovery support
- designed an async message bus architecture to eliminate polling latency and increase request throughput
- lead system design and technical architecture review board

Software Engineer (January 2020 - September 2022)

Responsible for design and deployment of a HIPAA compliant cloud infrastructure platform (networking, compute, storage) on AWS

- migrate REST based microservices to gRPC
- advanced adoption of Go and containerization by developing foundational libraries and components
- developed and launched a real-time medical Chat platform

Software Engineering Co-op (January - May 2019)

Directed a system re-architecture from on-premise to cloud-native, containerized microservices leveraging on Kubernetes and AWS.

Tesla (September - December 2018)

Software Engineering Co-op - Digital Products

Developed infrastructure to enable a highly available content store for managing localization data and content templating globally.

Architected an API-first document management service used to generate purchase orders and other legal documents on the fly with full auditing and traceability.

Migrated legacy API services to a new Kubernetes compute platform

DigitalOcean (June - August 2018)

Software Engineering Intern - Storage

Developed a unified infrastructure management service that enabled real-time identification of global block storage cluster performance issues and underlying hardware storage system degradation.