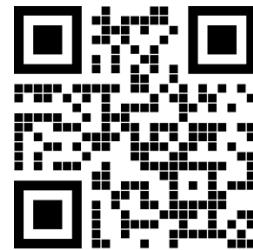


# Paul Wong

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## Professional Summary

Senior software engineer with 20+ years of experience building, evolving, and maintaining complex backend and distributed systems. Deeply hands-on coder with a strong background in API design, data processing, and event-driven architectures. Experienced leading large codebases, mentoring engineers, and driving technical direction while delivering reliable, scalable software in production environments.

## Core Technical Skills

### *Programming Languages*

Python, Go, Kotlin, C/C++, C#, JavaScript/TypeScript, Java

### *Backend & Distributed Systems*

REST APIs, Microservices, Event-driven systems, Data pipelines, System design, Scalability, Reliability

### *Frameworks & Libraries*

FastAPI, Django, Flask, Node.js, .NET, Angular

### *Data & Messaging*

PostgreSQL, Snowflake, Redshift, ClickHouse, SNS, SQS, EventBridge

### *Testing & Quality*

Unit testing, integration testing, TDD, code reviews, performance tuning

### *Platforms*

Kubernetes, Docker, AWS, GCP, CI/CD (GitHub Actions, Jenkins, Airflow)

## Professional Experience

### **Intel Corporation – Hillsboro, OR**

**Cloud Software Engineer (Contractor) | 06/2024 – 12/2025**

- Led and executed a migration of a telemetry data collection system, focusing on service logic, APIs, and data processing workflows from Cloud Foundry to Kubernetes.
- Wrote and maintained backend services in Python, Go, and Clojure, supporting high-volume telemetry ingestion.
- Refactored legacy components to improve maintainability, testability, and performance.
- Collaborated closely with product and platform teams to define service contracts and data models.
- Built and maintained automated test suites and CI pipelines to support rapid, reliable delivery.
- Provided technical guidance and code reviews across multiple teams.

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**Torqata – Huntersville, NC**  
**Senior Software Engineer | 12/2022 – 10/2023**

- Designed and implemented backend microservices integrating Auth0 with internal systems using Python, FastAPI, and PostgreSQL.
- Owned service codebases end-to-end, from design through production support.
- Improved API performance, error handling, and observability.
- Reduced system complexity by consolidating services and improving data access patterns.
- Actively participated in design reviews, mentoring, and architectural discussions.

**Amazon Web Services (AWS) – Portland, OR**  
**Software Engineer | 04/2022 – 09/2022**

- Developed highly available REST APIs for Route 53 Application Recovery Controller using Kotlin and Python.
- Focused on correctness, resilience, and backward compatibility in a large, long-lived codebase.
- Wrote unit and integration tests to meet AWS quality and operational standards.
- Participated in on-call rotations, debugging and resolving production issues.

**Comfy (A Siemens Company) – Oakland, CA**  
**Staff Software Engineer | 01/2021 – 04/2022**

- Designed and built backend APIs in Python and Django to synchronize events with external calendar systems (O365, Google).
- Implemented event-driven service logic using queues and asynchronous processing.
- Improved system reliability by introducing retries, idempotency, and better failure handling.
- Mentored engineers and set coding standards across backend teams.

**Comscore / Rentrak – Portland, OR**  
**Senior Software Engineer / Technical Lead | 10/2014 – 01/2021**

- Built and maintained large-scale data processing and verification pipelines using Python, FastAPI, Flask, and SQL.
- Developed extensions to a web-based data warehouse supporting analytics and reporting.
- Optimized data ingestion and query performance across PostgreSQL, Redshift, and Snowflake.
- Led code reviews, design discussions, and mentored junior engineers.

**Earlier Career**

Senior Software Engineer / Technical Lead – Palm, PalmSource, ACCESS Systems, Wind River, Iterasi, WeSync

- Extensive experience building embedded, desktop, and server-side software in C/C++, Java, and .NET.
- Developed synchronization engines, middleware, and client/server systems deployed at scale.
- Led teams, reviewed code, and delivered complex systems across multiple platforms.

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## **Education**

Portland State University  
Portland, Oregon

Bachelor of Science in Mathematics

- Studied theoretical mathematics and problem solving.
- Applied mathematical principals in computer science.

## **Licenses & certifications**

- AWS Certified Cloud Practitioner