

Oliver Harper | Staff Software Engineer

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Staff Software Engineer and technical leader with 10 years of experience bringing clarity to ambiguous, high-stakes problems, designing pragmatic distributed systems, and aligning engineering with business.

WORK EXPERIENCE

Domino's Pizza Enterprises, Netherlands | Staff Software Engineer 2023 - 2026

Led privacy and compliance system design and delivery with Legal and Product across Europe, Australia and Japan

- Architected the first global GDPR deletion platform using serverless **Azure Functions**, Queue Storage and shared HTTP contracts to orchestrate verifiable fan-out/fan-in deletion across ~5 services; cleared a **2-3M-customer backlog** by deadline and closed a compliance gap with exposure up to **4% of turnover** (\$64.5M internal estimate).
- Designed DRP's stateless, queue-partitioned execution for unbounded application-level scaling and scale-to-zero economics; used Grafana/Kubernetes metrics to cap throughput at the weakest downstream, safely processing **60K customers per day** in a two-hour global window without disrupting live ordering.
- Led a zero-downtime schema redesign for **200M+ Cosmos DB orders**, replacing serialized JSON with versioned, queryable documents and dual-schema consumers; made field queries **10-15x faster**, brought previously impossible aggregations below two seconds and unlocked order data across teams.
- Resolved an ambiguous French GDPR requirement with Legal and Baker McKenzie, designing a two-stage geospatial and drive-time algorithm that cut Google Maps API calls from ~800 to 2-3, avoided an estimated **€60K annually** and shipped the compliant workflow before the Christmas freeze.
- Led Japan's Quattro customization end to end, integrating global .NET fulfilment with undocumented POS XML via **Azure Service Bus** and isolating market-specific behavior behind feature flags; enabled a **1.8% revenue uplift worth \$9.9M annually** with zero cross-market incidents.

Ringier / Homsters | Tech Lead

2021 - 2023

Hands-on technical lead for a 10-person team operating and modernizing a four-country white-label real-estate platform

- Chose incremental modernization over a commercially unrealistic full rewrite and cutover; used the platform's 15-minute cache cycle to prove a **Next.js/React** ISR architecture in TypeScript on one major page behind a fallback flag, achieving **<300ms p99** versus 1-2s Razor and increasing pages per session **50%**.
- Took day-to-day technical leadership of a **10-person team**, freeing the CTO for company-level priorities; built missing backend, QA leadership and DevOps capability through three key hires, established collaborative architecture reviews and engineer ownership through QA, and mentored a junior to mid-level.
- Changed how engineers operated four country deployments by replacing two-seat RDP/Notepad debugging with structured **ELK logs and Prometheus/Grafana dashboards**; exposed N+1 queries, cache-driven memory growth and business-logic defects faster, contributing to an **estimated 80% reduction in production errors**.
- Won CTO approval for the platform's **first microservice** by showing that Poland's clean external-integration boundary justified extraction while existing monolith logic did not; shipped a unit-tested, Docker-ready .NET 8 service with horizontal scaling and enabled the market launch.

EARLIER EXPERIENCE

Senior Software Engineer (Golang) at AUTODOC (contract) 2023

- Built a fault-tolerant, event-driven analytics pipeline in **Go** with Kafka and ClickHouse, replacing Google Analytics, ingesting millions of events and protecting tracking where downtime was estimated at **\$10K/hour**.

Senior Software Engineer at TenureX (contract) 2021

- Built **Go** and .NET microservices on GCP using Pub/Sub and Cloud Storage for cross-border banking, adding safeguards against transaction failures.

Senior Software Engineer / Deputy Tech Lead at tech/uklon 2019 - 2021

- Cut CPU consumption **97%** (40 cores to <1) by eliminating cross-node Orleans calls and deadlock risks; saved **\$6K annually** and improved latency in a service processing **10M+ notifications daily**.
- Migrated a **100+ GB** notification database from MSSQL to PostgreSQL with zero downtime using rowversion-based continuous replication, maintaining **10M+ daily notifications** throughout cutover.

Software Engineer at CyberBionic Systems / Edsson / Nimses 2016 - 2019

- Built GCP notification processing that cut resource use **41%** while sending up to **10M notifications**, plus .NET/Angular ATM cash-forecasting software and an ed-tech platform serving **1,200+ students**.

EDUCATION & TRAINING

B.Sc. Software Engineering, NTUU Kyiv Polytechnic Institute 2014 - 2018

Microsoft Azure AI Engineer Associate course 2025