

# Nikos Oikonomou

## Principal Software Engineer — Distributed Systems & Platform Architecture

Volos, Greece

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LinkedIn · GitHub

## SUMMARY

Principal-level software engineer with 9+ years designing and operating distributed, production-grade systems. Strong background in platform architecture, data-intensive services, and system correctness, with hands-on ownership across search, event-driven backends, and IoT platforms. Deep experience optimizing web applications for SEO, performance, and scalability across both backend and frontend layers.

## AREAS OF EXPERTISE

- Full-stack system design across backend and frontend layers
- Distributed systems architecture and clear service boundaries
- Data-intensive platforms and indexing-heavy workloads
- SEO optimization and web performance at scale
- Event-driven architectures and asynchronous workflows
- Cloud-native infrastructure and Kubernetes operations
- Technical architecture ownership across multiple teams

## EXPERIENCE

### Kariera Group — Remote

**Principal Software Engineer / VP of Engineering** · Jan 2022 – Present

*HR Solutions*

Progressed from Senior Software Engineer to VP of Engineering while maintaining hands-on ownership of critical systems and platform architecture.

- Architected frontend systems with a focus on SEO, rendering strategies, page performance, and crawlability at scale
- Designed and shipped the core search and indexing subsystem with explicit guarantees around ranking, pagination, and determinism; built regression testing to enable safe iteration
- Delivered mission-critical features under tight deadlines, including complex third-party integrations
- Authored technical documentation for KPI-critical features to support structured reviews and long-term maintainability
- Acted as architectural owner across multiple squads, guiding senior engineers and tech leads on system design and trade-offs
- Collaborated closely with Product and Design leadership to align roadmap priorities with long-term technical strategy
- Contributed to hiring and team growth through technical interviews, assessments, and mentorship
- Established engineering best practices (GitOps, naming conventions, code structure) and worked with tech leads to maintain architectural consistency

**Stack:** TypeScript, Node.js (NestJS), React (NextJS), Tailwind, PostgreSQL, Elasticsearch, Kafka, Redis, Azure (AKS), ArgoCD

## **Centaur Analytics — Volos, Greece**

**Senior Software Engineer / Engineering Leadership** · Jul 2016 – Jan 2022

*AgTech IoT & Analytics*

Progressed from Software Engineer to Director of Engineering while remaining deeply involved in system design and implementation.

- Refactored backend APIs from a monolithic architecture into microservices, addressing real-world reliability challenges in distributed systems
- Led development of a distributed IoT platform, including low-level Linux system development, sensor management, and device-to-device communication (MQTT, 802.15.4)
- Built CI/CD pipelines from scratch using GitLab CI and Bash, integrating complex build systems such as Yocto
- Designed and shipped backend and frontend systems from initial architecture through production
- Migrated Kubernetes infrastructure from self-managed AWS + Kops to managed EKS to improve stability and observability
- Upgraded observability tooling (Grafana, Prometheus, Kibana) and collaborated with DevOps to resolve cluster and deployment issues
- Took end-to-end ownership of features across the full stack, from embedded devices to client applications

**Stack:** JavaScript, Node.js (Loopback), AngularJS, MongoDB, RabbitMQ, AWS, Kubernetes (Kops, EKS), GitLab CI, C (ZephyrOS)

## **TECHNOLOGIES**

**Languages:** TypeScript, JavaScript, C, Python, Java

**Runtime & Frameworks:** Node.js, NestJS, Express, Loopback, React, NextJS

**Data & Storage:** PostgreSQL, Elasticsearch, MongoDB, S3, Azure Blob Storage, Redis

**Messaging & Streaming:** Kafka, RabbitMQ

**Cloud & Infrastructure:** Kubernetes, AWS (EKS, Kops), Azure (AKS), ArgoCD

**CI/CD & Testing:** GitLab CI, GitHub Actions, Jest, Mocha, Cypress

## **EDUCATION**

**University of Thessaly**

M.Sc. Electrical & Computer Engineering · 2012 – 2018

## **LANGUAGES**

Greek, English

## **INTERESTS**

Traveling · Gaming · Cooking · Writing