

Ömer Kaptan

Software Development Lead, YEDAŞ

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Summary

I lead a 10-person software development organization in Türkiye's regulated energy distribution sector and am the technical lead for the company's AI transformation. My current work is on-prem infrastructure, agentic AI architecture, and redesigning the software development lifecycle around autonomous agents.

Experience

Digital Applications Chief (Team Lead), YEDAŞ, Yeşilırmak Electricity Distribution Inc.

2024 to present

- Lead a 10-person organization made up of a full-stack product team and an operational technical support team.
- Responsible for budget, vendor and contract processes, roadmap prioritization, and the technical foundation of the company-wide AI transformation.
- Proposed redesigning the software development lifecycle around autonomous AI agents (Agentic SDLC) and launched it with executive backing.

Senior Software Specialist, YEDAŞ

2022-2024

- Led the mobile app's move from Flutter to React Native.
- Designed highly available services on Node.js and MongoDB.
- Cut deployment times by 40% through CI/CD automation and set up the on-prem Docker registry.

Software Specialist, YEDAŞ

2020-2022

- Built Node.js backend services and REST and SOAP APIs.
- Integrated with SAP over WSDL and RFC, and automated workflows with Node-RED.

Junior Software Specialist, Kurye Taxi

2019-2020

- Web and mobile development with PHP, WordPress and Android.

Selected work

- Agentic SDLC transformation** (in progress, architect and lead): We are embedding Claude Code and our own agents into every phase, from analysis to deployment.
- NextPO** (end-to-end owner): A decision support platform that analyzes corporate demands with AI, calculates their cost and sets priorities. It became the flagship project of the Next2030 strategic transformation program. *CXO Medya, Strategic Leadership award.*
- Nebula** (technical lead, solution architect): The platform that brings the company's AI applications together. Agile agents that write user stories, estimate story points and assign tasks run on it, along with chatbots that support customer representatives. *IDC Future Enterprise Awards 2024, Best in Business Enablement, 3rd place.*
- Rebuilding the mobile app** (tech lead): We rebuilt an app inherited from an external vendor on a single React Native codebase for iOS and Android.

- **Leylek, on-prem Kubernetes migration:** We moved critical applications onto an RKE2 cluster (Rancher, Longhorn, F5, Traefik). System downtime dropped by about 90%.
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Skills

- **Leadership and management:** Engineering team leadership, Sprint and Agile management, strategic planning and roadmap, budget management, vendor and contract management, stakeholder management, mentoring
 - **AI and digital transformation:** Agentic SDLC architecture, AI strategy and roadmap, AI agent development, MCP, LLM integrations, enterprise AI platforms
 - **Architecture and development:** Node.js, TypeScript, NestJS, Next.js, React, React Native, GraphQL, REST, SOAP, microservices, monorepo (Turborepo), event-driven architecture
 - **Infrastructure and DevOps:** Kubernetes (RKE2, K3s), Rancher, Rancher Fleet, Helm, Docker Swarm, Traefik, NGINX, F5, Longhorn, GitLab CI/CD, RHEL 9, Harness AI
 - **Data and security:** MongoDB (replica set, sharding), PostgreSQL, Redis, Elasticsearch, JWT, OAuth, RBAC, ZAP, Semgrep
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Education

- **B.Sc. Information Systems Engineering.** Near East University, 2014-2017
 - **Associate Degree, Computer Programming.** Karadeniz Technical University, 2012-2014
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Languages

Turkish (native), English (good proficiency)