Alper Sarper

Senior Frontend Engineer · Istanbul, Turkey

hello@alpersarper.dev ↗ /in/alpersarper (https://www.linkedin.com/in/alpersarper)
↗ /alpersarper (https://github.com/alpersarper)

---

01 Experience

2023 — NOW

Frontend Software Development Lead · Ratio Energy

- Designed the frontend architecture of real-time energy management and energy trading platforms, leading key technical decisions.
- Developed dashboards, alarm management and monitoring interfaces for mission-critical 24/7 energy operations.
- Optimized performance and memory usage for applications processing 30,000+ real-time signals, significantly improving stability and reducing browser crashes.
- Contributed to a WebSocket-based real-time data infrastructure for high-frequency data streams.
- Led frontend modernization with a shared design system and reusable component library.
- Mentored a team of 3 frontend engineers, driving architectural improvements, code quality and AI-assisted development practices.

2021 — 2023

Software Engineer · Virtual Projects

- Contributed to the frontend development of analytics and reporting platforms used by mobile game teams.
- Built analytics interfaces with D3, SVG and Recharts for retention, churn, cohort analysis and A/B testing.
- Implemented rendering and data-loading optimizations for large datasets.
- Created a shared design system to improve consistency and accelerate development across products.
- Built internal tools for developers and artists, improving operational efficiency and content production workflows.

2020 — 2021

Software Engineer · WesterOps

- Contributed to the frontend development of web-based commerce platforms with integrated payment systems.
- Implemented multi-language and multi-currency support for international users.

02 Skills

FRONTEND

React · Next.js · TypeScript · React Native

STATE MANAGEMENT

Redux Toolkit · Zustand

TESTING

Playwright · Cypress · React Testing Library

BACKEND

Node.js · NestJS · REST APIs · GraphQL

PLATFORM

Docker · AWS · CI/CD · Sentry

EXPERTISE

Frontend Architecture · Design Systems · Real-Time Systems · Dashboard Applications · Performance Optimization

LANGUAGES

Turkish (native) · English (C1)

03 Education

2014 — 2020

Bachelor's Degree in Computer Engineering

Sakarya University