Ömer Berkan Çalık

Senior Software Engineer · React, TypeScript, .NET · Healthcare (ICU)

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SUMMARY

Software engineer with 4.5 years on an ICU clinical platform that doctors and nurses use for patient records, bedside monitoring and alarm handling. Frontend maintainer of the React codebase since April 2025. Full stack since July 2026 with ASP.NET Core and PostgreSQL.

EXPERIENCE

Ceiba Health · Ankara, Türkiye (hybrid) · Jun 2022 – Present

Full Stack Developer | Jul 2026 – Present

- Build features end to end in React and ASP.NET Core (.NET 10, EF Core, PostgreSQL): monitoring dashboards with configurable tables and charts, filterable KPI endpoints, and new backend modules for device data.
- Added real-time list updates with RabbitMQ and WebSockets, so users see changes without a refresh.
- Cut clinical note autofill latency from 134 ms to 26 ms (p95: 203 to 67 ms) by merging 43 lab queries into one.
- Added patient name masking on shared devices for KVKK/GDPR privacy and fixed wrong reporting metrics.
- Built an internal Rust CLI that lets developers and AI coding agents query code, pull requests, work items and build logs across about 600 repositories with 12× or more fewer LLM tokens.

Senior Frontend Developer | Apr 2025 – Jun 2026

- Owned the eClinics frontend codebase: reviewed changes, set coding conventions, and kept dependencies and build tooling up to date.
- Migrated state management in a large React codebase from MobX to React Query and jotai in small, reviewable steps. Added tests before the change to protect existing behavior.
- Upgraded the build tooling (Vite 8, Vitest 4, TypeScript 7) and cut the production build time from 57 s to 8 s.
- Built a shared popup system (dialogs, notifications, loading states) that replaced three older APIs at about 780 call sites.

Frontend Developer | Jun 2022 – Mar 2025

- Built clinical features for adult, pediatric and neonatal intensive care: medication administration, clinical documentation, data entry forms and clinical scoring screens.
- Built real-time monitoring and alarm screens: live device data, waveform charts, and alarm workflows with escalation and acknowledgement.
- Improved reliability: error boundaries that keep one failing screen from crashing the app, WebSocket reconnect logic, and fixes for cross-browser layout bugs.
- Added multi-language support (English, German, Turkish) with locale-aware date and number formatting.

Mobiversite · Full Stack Web Developer | Oct 2021 – Jan 2022

MAY Siber Teknoloji · Intern | May 2021 – Jun 2021

Ziraat Bankası · Intern | May 2019 – Jun 2019

SKILLS

Programming languages: TypeScript, JavaScript, C#, Rust, SQL

Frontend: React, Vite, TanStack Query (React Query), jotai, MobX, Mantine, Sass/SCSS, Chart.js, i18n, WebSockets

Backend: ASP.NET Core (.NET 10), Entity Framework Core, PostgreSQL, Redis, RabbitMQ, Hangfire, REST APIs

Testing and quality: Vitest, Playwright, SonarCloud, oxlint, ESLint, Sentry

Tools: Git, Azure DevOps (Repos, Pipelines, Boards), Docker, Claude Code, Codex

EDUCATION

B.Sc. in Computer Engineering, Eskişehir Osmangazi University | 2021