



Kerem Ilhan • Fullstack Developer

I'm a senior fullstack developer with 4+ years of experience building scalable, user-centered web applications using **React**, **Next.js**, **TypeScript**, and modern CSS frameworks such as **Tailwind CSS** and **Styled Components**. While I have a strong frontend background and care deeply about UX and pixel-perfect implementation, I'm equally comfortable designing and building robust backend systems.

I have hands-on experience developing backend services with **Django**, **FastAPI**, **Node.js**, and **NestJS**, working with both relational databases like **PostgreSQL** and NoSQL databases like **MongoDB**, and defining clean, maintainable API contracts that connect complex frontend applications to real business logic. I enjoy owning features end to end — from backend data models and services to frontend architecture and performance optimization.

I've worked in international, cross-functional teams and collaborated closely with product managers, designers, clinicians, and other stakeholders to ship impactful products — from interactive e-learning platforms and medical imaging tools to data-heavy reporting systems for shipping companies. I care not only about clean code and smooth user experiences, but also about how technical decisions support long-term product goals.

I thrive in startup-like environments where ownership matters, enjoy mentoring and raising engineering standards, and strongly believe in continuous learning as a core part of everyday development.

Skills

Frontend

React, NextJS, Javascript, Typescript, Tailwind CSS, Bootstrap, Styled Components, SCSS/SASS, Bootstrap, Material UI, HTML, CSS, various Chart libraries, Wordpress

Backend

Python, Django, NodeJS, ExpressJS, NestJS, MongoDB, PostgreSQL

Other Technical Skills

Unit Testing, NPM, Webpack, Redux, Git, Github, GitLab, REST, Jest, Jira, Agile, Confluence, Devops, Docker

Work Experience

Fullstack Developer • JohnSnowLabs • United States

3 months Sep 2025 - Present

Building critical modules for the platform – an end-to-end clinical data intelligence system that transforms fragmented, multimodal healthcare data into a unified, analytics-ready foundation for research, cohort analysis, and AI-driven clinical applications.

- **Tech Stack:** Python (FastAPI), NestJS, React, TypeScript, Tailwind CSS, Ant Design
- Led the end-to-end ownership of multiple critical application modules, from technical design and implementation to production rollout and long-term maintenance.
- Architected and delivered complex, high-performance user interfaces, balancing scalability, maintainability, and excellent user experience.
- Translated Figma designs into pixel-perfect, production-grade UI implementations, setting frontend quality standards across the team.
- Designed and implemented backend services using FastAPI to support evolving product requirements, and drove their seamless integration into frontend applications.
- Defined and enforced clean API contracts between frontend and backend, ensuring reliability, consistency, and ease of future extension.
- Drove performance-focused development practices, optimizing frontend rendering, API efficiency, and overall system responsiveness.
- Took strong product ownership, actively shaping feature scope, technical decisions, and trade-offs in close collaboration with product managers and designers.
- Mentored team members through code reviews and architectural guidance, contributing to higher engineering standards and team velocity.
- Ensured long-term scalability and maintainability by applying sound architectural principles and modern engineering best practices.

Medical Software Developer • Gesund.ai • United States

4 months May 2025 - Sep 2025

Developed a full-stack medical imaging platform for viewing and annotating large-scale microscopy slides, enabling clinicians to efficiently analyze whole-slide images for diagnostic and research purposes.

- **Tech Stack:** Python (FastAPI), React, TypeScript, OpenSeadragon, OHIF Viewer, NestJS
- Implemented FastAPI services to prepare microscopy slide images for OpenSeadragon by generating multi-resolution, tile-based image structures on the backend.
- Implemented an OpenSeadragon-based viewer to efficiently render large-scale whole-slide images with smooth zooming and panning.
- Integrated the microscopy viewer into the OHIF Viewer ecosystem, ensuring interoperability with existing medical imaging workflows.
- Designed and implemented end-to-end annotation and cropping functionalities, covering both backend image processing pipelines and frontend user interactions.
- Built full-stack features for creating, storing, and managing image annotations, enabling precise region-of-interest (ROI) marking for medical analysis.
- Optimized image streaming and tiling strategies to handle very large microscopy images with minimal latency.
- Collaborated closely with clinicians and internal stakeholders to align imaging tools with real diagnostic and research workflows.
- Ensured scalability and maintainability of the imaging services by following clean architecture and API design best practices.

Fullstack Developer • Ship Reports • Amsterdam, NL

6 months Nov 2024 - May 2025

Built a reporting system for a shipping company that helps crews log daily data and office teams analyze it through charts and tables.

- **Tech Stack:** Django, Python, Javascript, Docker, SQLite
- Designed and implemented the backend using Django and SQLite, handling data collection, storage, and retrieval.
- Developed a responsive frontend with vanilla JS and Django HTML templates.
- Created an internal dashboard for office users to view and interpret data.
- Integrated carbon value calculations to support environmental reporting.
- Worked directly with stakeholders to make sure the tool met real-world operational needs.

Frontend Developer Mentor • HackYourFuture • Amsterdam, NL

1 year 9 months Mar 2024 - Present

Volunteer mentor in a program helping people with refugee backgrounds become web developers.

- **Tech Stack:** Javascript, React, Node.JS
- Review students' code and give clear, practical feedback to support their learning.
- Host workshops and one-on-one sessions to guide students through real-world dev challenges.
- Mentoring students on best practices and coding standards to enhance their readiness for real-world projects.
- Help maintain and improve the curriculum to reflect current frontend practices and job expectations.
- Collaborate with other mentors to build a strong, inclusive learning community.

Frontend Developer • Perculus • Turkey

1 year 5 months Aug 2022 - Jan 2024

Worked on an interactive e-learning platform focused on online meetings and virtual classrooms.

- **Tech Stack:** Typescript, Javascript, React, Node.JS, PostgreSQL, Socket.io, SCSS, Styled Components
- Built 5+ real-time web apps from scratch using React, TypeScript, and Socket.io.
- Helped develop and maintain an internal component library to speed up development.
- Improved frontend performance significantly (up to 60% in some areas).
- Collaborated with cross-functional teams including product, QA, and backend.
- Got hands-on with product decisions, deadlines, and prioritization — startup-style.
- **Reason for leaving:** Relocated to the Netherlands.

Frontend Developer • Belderia • Turkey

1 year Aug 2021 - Aug 2022

Maintained and modernized the company's e-commerce site for a major bicycle manufacturer.

- **Tech Stack:** Typescript, Javascript, React, Node.JS, PostgreSQL, Socket.io, SCSS, Styled Components
- Rebuilt the platform using React and TypeScript, replacing legacy code.
- Fixed bugs, improved UI/UX, and helped increase site traffic by 70%.
- Led the effort to streamline the company's digital presence, which contributed to a 200% growth in customer engagement.
- **Reason for leaving:** Moved to a different city.

Education

Bogazici University • Bachelor's Degree

Sep 2014 - Jun 2018

Political Science and International Relations

Languages

English • Full Working Proficiency

Dutch • Conversational

Turkish • Native