

Berk Sancak

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SUMMARY

[GitHub – SancakBerk](#)

Hello! I'm Berk Sancak — I'm a dedicated software developer specializing in creating dynamic and scalable web applications. My focus is on delivering high-performance solutions with an emphasis on both functionality and user experience.

Technologies I Work With:

Front-End: React, Next.js, TypeScript, Tailwind CSS, Framer Motion

Back-End: Node.js, Express.js

Database: SQL (MySQL, and MS SQL), NoSQL, MongoDB

State Management: Redux Toolkit

Version Control & Deployment: Git, GitHub, Vercel, Internet Information Services (IIS)

What I Do: Develop responsive, modern web applications using React and Next.js. • Build robust back-end APIs with Node.js and manage data effectively with SQL databases. • Deploy and manage applications on platforms such as Vercel and IIS, ensuring smooth delivery and uptime. • Prioritize application performance, scalability, and an intuitive user experience. • Continuously adapt to emerging technologies and best practices in software development.

Feel free to explore my GitHub profile to view my projects and gain deeper insights into my technical expertise and development capabilities.

REFERENCES

Emrah Asma

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EXPERIENCE

Backend Developer

IWWOMI

- At IWWOMI, I worked as a **Backend Developer** on a project for taxi company owners in Germany. The system was designed to help owners efficiently manage their vehicles, drivers, companies, and income/expenses. I played a key role in **designing the project architecture** and providing **technical leadership** to the development team, ensuring that the system was scalable and maintainable.
- My responsibilities included implementing **rate limiting**, **validation controls**, **log monitoring**, and creating **robust endpoints** to support various functionalities. I also worked on **performance optimization**, integrated **Firebase services** for real-time updates and notifications, and managed **deployment on Google Cloud servers** to ensure reliable and scalable operation. The system's data was stored and managed using **MongoDB**, allowing for flexible and efficient handling of complex data structures. Throughout the project, I contributed to multiple development tasks, maintaining high-quality code and ensuring smooth system performance.
- After successfully completing that project, I am currently developing an **order management page** for a beauty and wellness company, focusing on building an efficient and user-friendly backend.

Technologies used:

- Backend: **Node.js**
- Database: **MongoDB**
- Services: **Firebase**
- Deployment: **Google Cloud**

Full Stack Web Developer

- **1- Developing an Auxiliary System for ERP Management**

- As part of our efforts, we **design and develop an auxiliary system** that seamlessly integrates with an **ERP (Enterprise Resource Planning) system**. This solution is engineered to **enhance the efficiency of managing and tracking critical operational processes**. Specifically, it provides **robust functionalities for monitoring and managing orders, streamlining operations, and overseeing workforce activities**.
- Our system enables **precise tracking of order lifecycles**, facilitates **smooth coordination of operational workflows**, and offers **real-time insights into employee performance and task assignments**. By consolidating these features, we empower organizations to **optimize their processes, boost productivity, and handle data-driven decisions with confidence**.

- **Technologies Used:**

- **Front-End:** React, enhanced with modern tools such as **Tailwind CSS** and **Syncfusion** for advanced UI components.
- **Back-End:** **Nest.js**, offering a scalable and modular server-side architecture.
- **Database:** **MS SQL**, ensuring robust and reliable data storage and retrieval.
- **State Management:** **Redux Toolkit** for efficient state management, ensuring scalability across the frontend.
- **Deployment:** The system is deployed and managed on **Internet Information Services (IIS)**, ensuring stable, secure, and accessible hosting within enterprise environments.

Web Developer

PITON TECHNOLOGY

December 2023 - February 2024, Turkey, Eskişehir

- Developed a **book page** as part of the project, focusing on **building an engaging and responsive frontend**.
- **Next.js:** Utilized for **server-side rendering (SSR)** and **static site generation (SSG)**, ensuring **fast performance and SEO optimization** for the page.
- **Redux Toolkit:** Integrated for **efficient state management**, allowing **seamless data handling across components**.
- **TailwindCSS:** Applied for **styling** to create a **visually appealing, responsive, and consistent user interface**.

Web Developer

Berkay Tulpark Clinic

July 2023 - September 2023, İstanbul

PROJECT

Expense Saving Tracker Web App

Personal • expensemavingtracker-git-main-sancakberks-projects.vercel.app/

- **Personal Finance & Goal Tracking Web Application**

- Developed a full-stack web application to help users manage their financial goals and track savings across multiple assets. The frontend was built with **Next.js**, while the backend leveraged **Next.js API routes**, and **Firebase Firestore** was used for database management.
- The application allows users to:
 - Set personal financial goals and calculate required monthly savings based on goal targets.
 - Track accumulated savings in various forms, including gold, stocks, mutual funds, Turkish Lira (TL), Euro, and gold karat values.
 - Monitor and visualize progress, adjusting contributions according to real-time asset values.
- This project provided hands-on experience in full-stack development, integrating modern frontend frameworks with cloud-based backend services, real-time database management, and financial computation logic.

- **Technologies used:**

- **Frontend:** Next.js
- **Backend:** Next.js API Routes
- **Database:** Firebase Firestore

Portfolio

Personal • sancakberkportfolio.vercel.app/

- **1- Personal Projects Showcase Website**

- Developed a **personal website** to showcase my **individual projects, technical expertise, and professional background**. This platform highlights my **skills in software development**, including **front-end and back-end technologies**, and provides **detailed descriptions of projects** I have worked on.
- The website serves as an **interactive portfolio**, featuring **live demos, source code links, and case studies** of my work. It reflects my **commitment to continuous learning** and demonstrates my ability to **apply technical skills to solve real-world problems**.

- **Technologies Used:**

- **Front-End:** React, TypeScript, Tailwind CSS, Framer Motion
- **Back-End:** Node.js, Express
- **Hosting:** Vercel
- **Version Control:** Git, GitHub

Diabetes Prediction Using Machine Learning in Pattern Recognition

- **2- Pattern Recognition Course Project**

- As part of the **Pattern Recognition course**, we developed a **machine learning-based classification model** to predict whether individuals are **diabetic** based on **medical data**. We used **supervised learning algorithms** such as **Logistic Regression** and **Decision Trees**, and evaluated model performance using **accuracy, precision, recall, and F1-score metrics**.

- The project involved **data preprocessing**, **feature selection**, **model training**, and **performance analysis**, reinforcing my understanding of applying machine learning techniques to real-world health data classification problems.

Image Enhancement Using EnlightenGAN for Low-Light Image Correction

ESOGU

• 3- EnlightenGAN Low-Light Image Enhancement Project

- In this project, we utilized **EnlightenGAN**, a deep learning-based generative adversarial network (GAN), to enhance low-light images by adjusting **brightness** and **illumination** levels. The primary goal was to **improve the visual quality of dark images** captured in poor lighting conditions.
- Throughout the project, we focused on **training the model**, **preprocessing visual data**, and **evaluating the enhancement results**. This work provided valuable experience in **deep learning**, **computer vision**, and **real-world image processing applications**.

Book Web

PITON Technology • book-web-two.vercel.app/

- This was my internship project, where we developed a web page to list books, focusing on creating an engaging and responsive frontend. The page was designed to provide a smooth and intuitive user experience, with fast loading times and clear navigation.
- **Technologies used:**
- **React**: For building interactive UI components and managing component-based architecture.
- **Next.js (SSR & SSG)**: Implemented server-side rendering and static site generation to improve performance, SEO, and overall page load speed.
- **Redux Toolkit**: Used for efficient state management, ensuring seamless data flow between components.
- **TailwindCSS**: Applied for responsive and visually appealing styling, maintaining design consistency across the page.
- This project allowed me to gain hands-on experience in modern frontend development, combining performance optimization, state management, and responsive design best practices.

EDUCATION

Computer Engineering

Eskişehir Osmangazi University • Turkey, Eskişehir

- Graduated

High School

Eca Elginkan Anadolu Lisesi

CERTIFICATIONS

Help Eachother

Blind People Organisation • 2018

- We developed an audio library project designed to support visually impaired individuals by providing them with accessible educational and literary content. As part of a volunteer initiative, we recorded and organized a collection of books and educational materials in audio format, making them available for blind and visually impaired users. The project aimed to promote equal access to information, support independent learning, and enhance the quality of life for individuals with visual disabilities. This experience helped me understand the social impact of technology and the importance of inclusive digital solutions.

Tübitak Bilim Fuarları Katılım Belgesi

2018

Sosyal Etkinlik Başarı Belgesi

Eca Elginkan Anadolu Lisesi • 2017

COURSEWORK

React JS : Uygulamalı React JS -Redux Eğitimi (2023 Güncel)

Udemy

- This course provided a comprehensive introduction to React JS and Redux, focusing on hands-on learning and real-world applications. Key Learnings: React Fundamentals: Gained a deep understanding of components, props, state, and the component lifecycle. Modern Features: Learned how to implement Hooks and React Router for advanced functionality. Redux Toolkit: Mastered efficient state management using Redux and its modern Toolkit for scalable applications. Integration: Explored integration with third-party libraries and tools to enhance application performance. Best Practices: Developed skills for writing clean, reusable, and maintainable code. Testing and Optimization: Learned debugging, performance tuning, and testing methods for React apps. By completing this course, I gained the ability to build professional, scalable React applications while implementing efficient state management through Redux. It helped me solidify my knowledge of modern development workflows and industry standards.

Node.js ile Sıfırdan İleri Seviye Web Geliştirme

Udemy • Data handling

- Applied advanced Node.js skills to design, develop, and deploy scalable, high-performance web applications. Starting from scratch, I built complete back-end systems that efficiently handle data processing, API creation, and real-time communication. Key applications of this skill included:
Server-Side Development: Built RESTful APIs endpoints to manage complex business logic and interact with databases effectively.
Real-Time Functionality: Implemented WebSocket communication for live data updates, such as chat applications and real-time dashboards.
Middleware Integration: Used Express.js for handling middleware functions, authentication, and request routing.
Database Connectivity: Established secure and optimized connections with MySQL.
Error Handling and Optimization: Ensured robust error-handling mechanisms and optimized server performance for a seamless user experience.

Flutter Bootcamp Programı | Dart | 2024

React Native Expo

YouTube • 2023

Sıfırdan İleri Düzey Web Geliştirme (HTML, CSS, Javascript)

Udemy • 2022

INVOLVEMENT

IEEE

Eskişehir Osmangazi University • n/a - n/a

- At IEEE, I conducted training sessions on HTML, CSS, and JavaScript, guiding participants through the fundamentals of web development. I focused on teaching how to structure web pages with HTML, style them using CSS, and add interactivity with JavaScript. Additionally, I provided hands-on exercises and real-world examples to help attendees apply their knowledge effectively.

SKILLS

Skills: React, Next.js, Tailwind CSS, TypeScript, Redux Toolkit, Nestjs, MySQL, SQL, NoSQL, MongoDB, Firebase, Node.js, JS, HTML, CSS, JavaScript, Git, Github, Framer Motion, Internet Information Service(IIS), Deployment, Rate Limiting, Monitoring System Integrate, Performance Optimisation
