

Selen Karakaya, MSc

Junior Front-end Developer

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-Eligible to work in the UK-

Detail-oriented Front-end Developer experienced in integrating APIs to add functionality and improve user interaction. Proficient in HTML, CSS, JavaScript, and React, adept at crafting responsive and intuitive web applications, utilizing Bootstrap, CSS, and Tailwind to enhance user engagement and accessibility. Passionate about creating immersive user experiences through innovative web applications, eager to contribute dynamic development skills to collaborative projects and drive success.

Tech Stack

Software Programs & Tools	: HTML, CSS, Bootstrap CSS, SASS/SCSS, Tailwind, ReactJS, jQuery, TypeScript
Development Languages	: JavaScript, Python
Areas of Expertise	: Responsive Design, User Interface Design, Back-End Database Integration, API Integration

Project Experience

Freelance Consultancy

2023 - Present

Front-end Developer (Freelance)

- Designs front-end code using HTML, CSS, JavaScript, React to create a responsive web application that works across desktops, tablets, and other devices.
- Builds responsive and accessible websites using Bootstrap, CSS and Tailwind, resulting in improved user engagement and experience.
- Integrates websites with powerful backend services such as databases, APIs, third-party services to add new functionalities and increase user interaction.
- Develops web applications using version control tools such as Git.
- My projects are available to display at <https://selenkarakaya.netlify.app> and <https://github.com/selenkarakaya>.

Projects:

- **Monthly Hobbies Planner:** Purpose of this project is building dynamic and interactive user interfaces to manage goals, important days, hobbies, etc.
 - Developed skills in building complex layouts and optimizing user experiences for different screen sizes.
 - Integrated with entertaining personalized user interfaces to encourage users to plan their hobbies using CSS and JS.
- **A Website for Pilates & Yoga Studio:** This project improves my understanding of responsive web design, including media queries, flexbox, and grid layout.
 - Enhanced skills in creating booking, payment, register, sign in pages and gained insights into the principles of persuasive design and effective use of color schemes with Bootstrap and JavaScript.
 - Used session storage for book classes to transfer to the shopping card page.
- **Longevity - Monitor Your Daily Calorie Balance:** This project improved skills in handling asynchronous data and integrating third-party APIs into applications to create a dynamic website by using foundations of JavaScript.
 - Integrated mathematical equations to create a tool to calculate Basal Metabolic Rate(BMR) and Body Mass Index(BMI) to guide users to set a daily calorie limit.
 - Used the Nutrition API to extract nutrition & workout information and calculate the corresponding data including creating your own recipes and workout sets.
- **Movies & Books Tracker:** Aim of this project is personalized content by users via the fundamentals of React: components, props, and state.
 - Developed an interactive website where users can take self-notes, give rates, write their thoughts about movies they watched or books they read.
 - Used Firebase database to save user's personal content.

- **Riverside Farm - Meal Kit Service:** Created a website for moderately priced meal kit service by using advanced skills in React, Tailwind and Firebase.
 - Built responsive websites for using HTML5, JavaScript, ReactJS, and Tailwind.
 - Used Firebase Authentication to support email and password login, Google Sign-In, also used Firebase Realtime Database to save and update user's data.
 - Used an integrated API to search recipes and generated a tool to create personalized recipes for registered users.

Technologies: HTML, CSS, SASS, Bootstrap, Tailwind, JavaScript, React.

Early Experience

Yildiz Technical University, Istanbul/Turkey
Research Assistant

2020 - 2021

- Successfully collaborated within a team of doctors, researchers, scientists, and engineers to develop a deep learning model for tumor detection.
- Designed and implemented a deep learning model using Python for medical image analysis, achieving a 98% accuracy rate in lesions segmentation, and reducing diagnosis time by 50%.
- Monitored and evaluated machine learning models in coastline and building extraction via satellite imagery.
- Assisted and mentored master's and bachelor degree thesis.

Emi Group Information Technologies Inc., Istanbul/Turkey
Geomatics Engineer

2018 - 2019

- Found dangerous points, suitable points and the threat to lines by processing LIDAR point clouds for power lines.
- Produced a 3D cities map and an orthophoto map using aerial imagery for electricity and natural gas distribution.

Ordu City Council, Ordu/Turkey
Geomatics Engineer

2017 - 2018

- Collected geographical data and developed a Geographic Information System (GIS) for use in the smart city project.
- Made a presentation about the importance of the smart city project and the importance of multidisciplinary engineers working together in this project.

Education

MSc in Science and Engineering, Yildiz Technical University, Istanbul, 2021 (GPA: 3.70/4)

Thesis: KARAGÖL, Selennur et al. "Shoreline Segmentation from SENTINEL-2 Imagery by Transfer Learning". Turkish Journal of Remote Sensing, c. 3, sy. 1, 2021, ss. 1-7, [view](#).

BSc in Civil Engineering, Selcuk University, Konya, 2017 (GPA: 3.14/4), *Honorary Graduate*

Erasmus Internship, Bruno Kessler Foundation, Trento/Italy, 2016

Certification

CS50P: CS50's Introduction to Programming with Python, HarvardX, 2023

CAD101EN: Introduction to Web Development with HTML5, CSS3 and JavaScript, IBM, 2024

Courses

Modern HTML & CSS From the Beginning (Including Sass) & Modern JavaScript from The Beginning, Udemy, 2023, (36 hours)

50 Projects in 50 days - HTML, CSS & JavaScript, Udemy, 2023, (19 hours)

React Front to Back, Udemy, 2024, (20 hours)

Languages

English (B1), Turkish (native)

Personal Interests

Keeping Hobby Diaries, Healthy Lifestyle, Running, Cycling, Pilates, Yoga, Hiking.