

Selennur Karakaya, MSc

Full-Stack Developer

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-Eligible to work in the UK-

Full-Stack Developer with hands-on experience building responsive, scalable web applications using React, Node.js, Express, and PostgreSQL. Experienced in developing REST APIs, implementing authentication, and managing application state. Passionate about creating clean user experiences and solving real-world problems through modern web technologies. Strong academic background in engineering and proven ability to quickly learn and apply new tools.

Tech Stack

Frontend:

React, Redux Toolkit, JavaScript, HTML5, CSS3, Bootstrap, Tailwind, jQuery

Backend:

Node.js, Express.js, PostgreSQL, Django, Python, MongoDB, Firebase

Tools & Deployment:

Git, GitHub, Netlify, Railway, Render, Vite

Areas of Expertise:

REST APIs, Authentication, CRUD Operations, Responsive Design, State Management, User Interface Design

Project Experience

Plant Store – Full-Stack E-commerce Application

React, Redux, Node.js, Express, PostgreSQL

- Developed a full-stack e-commerce platform with authentication and cart functionality
- Built REST API for product management, cart operations, and user accounts
- Implemented Redux Toolkit for global state management
- Designed relational database schema in PostgreSQL
- Deployed frontend and backend using Railway

Live: <https://plantstore-production-748f.up.railway.app/>

Nail Studio – Booking System

React, Django, PostgreSQL

- Developed appointment booking system with user authentication
- Built backend API using Django REST
- Implemented CRUD operations for booking management
- Created responsive frontend using React

Live: <https://nailstudio-frontend-production.up.railway.app/>

Gazetteer – Country Information App

JavaScript, REST APIs, Bootstrap

- Built interactive application integrating multiple external APIs
- Implemented dynamic UI updates based on user interaction
- Developed responsive interface using Bootstrap

Live: <https://selennurkarakaya.co.uk/gazetteer>

Company Directory – CRUD Web Application

PHP, SQL, AJAX

- Developed full CRUD system for managing company records
- Integrated frontend and backend using AJAX
- Designed relational database structure

Live: <https://selennurkarakaya.co.uk/companydirectory>

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

IT Career Switch Ltd, Coding Traineeship – Full Stack Developer 1-year program, 2026

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

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