

# ZEYNEL DEMIRDAG

Software Developer | Frontend, Backend & AI-Focused Systems

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## Professional Summary

Software developer focused on frontend interfaces, backend-ready web systems, and AI-driven graph analysis. Builds responsive web products with clear UI structure, interactive JavaScript behavior, deployable hosting workflows, and professional GitHub documentation while contributing to research workflows involving semantic embeddings, knowledge graphs, and Graph Neural Networks.

## Core Technical Skills

Frontend	HTML, CSS, JavaScript, responsive UI, animations, Canvas, SVG
Backend	Node.js APIs, Python backend basics, PHP, SQL, form/order data handling
AI / Data	Graph Neural Networks, SBERT/NLP, knowledge graphs, PyTorch, web scraping
Security / Tools	Network fundamentals, Fortigate, Splunk, Kali Linux, log analysis, Git/GitHub

## Experience

**TUBITAK 1002 Project Assistant** | Firat University, Software Engineering Department | 2025 - Present

- Contribute to a TUBITAK-supported research project focused on workforce transition analysis using Graph Neural Networks.
- Work on semantic embedding pipelines, heterogeneous graph modeling, and curriculum intelligence system workflows.
- Support data collection, preprocessing, and emerging technology gap analysis across AI, cybersecurity, cloud, blockchain, and quantum technology areas.

## Selected Projects

**Elazig City Hospital Taxi Website** | HTML, CSS, JavaScript, Responsive UI, Live Domain

- Built a live local business website for a taxi service near Elazig City Hospital with phone, WhatsApp, Instagram, gallery, services, and location-focused sections.
- Used real business visuals and a clear mobile-first call flow to make customer contact fast and direct.

Links: [elazigsehirhastanesitaksi.com](http://elazigsehirhastanesitaksi.com)

**Professional Portfolio Website** | HTML, CSS, JavaScript, Node.js API, cPanel Hosting

- Built and deployed a professional portfolio website with animated sections, project filtering, profile visuals, and a backend-supported contact flow.
- Published the site on a custom domain with shared hosting, SSL setup, and production-ready static asset organization.

Links: [zeyneldemirdag.com](http://zeyneldemirdag.com)

**Rezerva Appointment Management System** | HTML, CSS, JavaScript, Dashboard UI

- Developed a responsive appointment management dashboard with booking form, live preview, schedule cards, team overview, and animated feedback states.
- Designed the interface as a business-ready frontend project with clear navigation, reusable sections, and polished interaction details.

Links: [github.com/zeyneldemirdag/A-R-WEB/tree/main/rezerva](https://github.com/zeyneldemirdag/A-R-WEB/tree/main/rezerva)

**BMI & Blood Pressure Risk App** | Flutter, Dart, HTTP API, Shared Preferences

- Built a university mobile application for BMI calculation, blood pressure input, hypertension risk flow, and local history tracking.
- Structured the project with screens, services, models, widgets, and theme files to show maintainable mobile application architecture.

Links: [github.com/zeyneldemirdag/A-R-WEB/tree/main/bmi-blood-pressure-risk-app](https://github.com/zeyneldemirdag/A-R-WEB/tree/main/bmi-blood-pressure-risk-app)

## **AIR WEB** | HTML, CSS, JavaScript, SVG, GitHub Pages

- Built a published one-page aviation technology website explaining aircraft mechanics, internal systems, and national aviation platforms.
- Implemented responsive sections, glassmorphism UI, SVG technical diagrams, reveal animations, and counter effects.

Links: [github.com/zeyneldemirdag/A-R-WEB](https://github.com/zeyneldemirdag/A-R-WEB) | [zeyneldemirdag.github.io/A-R-WEB/](https://zeyneldemirdag.github.io/A-R-WEB/)

## **Knowledge Atlas** | HTML, CSS, JavaScript, Canvas

- Developed an interactive microsite for science, technology, future systems, and book notes inside the A-R-WEB repository.
- Used canvas animation, topic filters, animated cards, and a structured article framework to turn content into a knowledge-map interface.

Links: [github.com/zeyneldemirdag/A-R-WEB/tree/main/bilgi-atlasi](https://github.com/zeyneldemirdag/A-R-WEB/tree/main/bilgi-atlasi) | [zeyneldemirdag.github.io/A-R-WEB/bilgi-atlasi/](https://zeyneldemirdag.github.io/A-R-WEB/bilgi-atlasi/)

## **Pazarix E-Commerce Demo** | HTML, CSS, JavaScript, Python backend, JSON data

- Created a modern e-commerce interface with product search, category filtering, cart drawer, checkout interaction, and animated UI feedback.
- Connected the interface to backend endpoints for product listing and order saving, with orders stored in a JSON data flow.

Links: [github.com/zeyneldemirdag/deneme-repo](https://github.com/zeyneldemirdag/deneme-repo)

## **Curriculum Intelligence Framework using GNN** | SBERT/NLP, Knowledge Graphs, Graph Neural Networks

- Designed research workflows for curriculum and technology gap analysis using semantic embeddings and graph-based modeling.
- Worked on mechanisms for semantic gap analysis, risk propagation, and technology readiness analysis.

## **Education**

**Software Engineering Degree** | Firat University | 3rd Year | 2025

## **Certifications & Training**

- ODTU - Computer File Security and Data Recovery (2025)
- ODTU - Introduction to Penetration Testing (2025)
- Turkcell Gelecegi Yazanlar - Introduction to Cybersecurity (2025)
- Cisco - Introduction to Cybersecurity (2025)
- Globally Check - GEN Academy SQL (2025)
- Globally Check - Applied Artificial Intelligence Training (2025)
- Bolu Abant Izzet Baysal University Cybersecurity Community - Online Linux Fundamentals Training (2025)

## **Academic Reference**

**Dr. Ogr. Uyesi Ozgur Karaduman** | Department of Software Engineering, Firat University

Research areas: Graph Neural Networks, Machine Learning, Blockchain Technologies, Data Science. Email: [okaraduman@firat.edu.tr](mailto:okaraduman@firat.edu.tr)