

# Ümmü Gülsüm Ergin

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## Education

### Rhein-Waal University of Applied Sciences

Kamp-Lintfort, Germany

Master of Science, Usability Engineering. GPA : 1.8

Expected 2026

Relevant Coursework: Human-Computer Interaction, User Research & Testing, UX Project Management, Strategic Usability Engineering & ISO Standards, Innovation & Design Thinking, User Experience Design, Digital Fabrication

### Bahcesehir University

Istanbul, Türkiye

Bachelor of Science, Software Engineering. GPA : 3.4

Jun 2024

Thesis : Ergonomic Risk Assessment Web Application with Java Spring, integrating ISO standards into the evaluation

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Data Science with Python, Software Architecture, Software Security, Software Verification and Validation, Object-Oriented Programming

## Engineering Research Experience

### Rhein-Waal University Usability Lab

Kamp-Lintfort, Germany

#### Kui Bot: Museum Chatbot

2024 - 2025

- Designed and developed an AI-powered, multimodal chatbot to enhance young visitors' engagement in a simulated contemporary art exhibition with prompt engineering methods with Python.
- Conducted usability testing (UEQ, MES) with 12 participants, validating improvements in artifact story comprehension.
- Led background research, prototyping, and integration of AI models, focusing on accessibility and user-centered interaction.

### Bahcesehir University

Istanbul, Türkiye

#### Ergonomic Risk Assessment Web Application

2023 - 2024

- Developed a responsive web app automating NIOSH RWL calculations and generating PDFs.
- Achieved >80% task completion in usability testing, reducing calculation time from 100+ sec to under 5 sec.
- Implemented core features and UI using Spring Boot, Thymeleaf, Bootstrap, JavaScript, and iTextPDF.

## Professional Experience

### Freelance UX & Graphic Designer

Germany (Remote)

2024 - Present

- Designed invitations, brochures, personal business cards, and managed social media accounts.
- Collaborated with clients in agile sprints, presenting deliverables and incorporating stakeholder feedback.

### Search Quality Improvement Specialist – Data Annotator

Türkiye (Remote)

#### Kovan App

Jul - Sep 2024

- Developed a responsive web app automating NIOSH RWL calculations and generating PDFs.
- Evaluated and annotated data to train AI models, focusing on relevance, accuracy, and visual-text correlation.

### Front-End Web Developer

Ankara (Remote)

#### Pointo

Jul - Aug 2023

- Developed responsive websites using HTML5, CSS, JavaScript, and REST API.
- Implemented UI/UX best practices for optimal user interaction.

## Leadership & Activities

### Photography Club

Istanbul, Türkiye

2023 - 2024

- Board Member & Social Media Contributor

### Yesilay Volunteer

Istanbul, Türkiye

2023 - 2024

- Raising Awareness for Addiction

### Bahcesehir University Radio Club

Istanbul, Türkiye

2019

- Broadcaster

## Skills

<b>Design &amp; UX:</b>	UI UX Design, Usability Testing, Data Visualization, Eye Tracking, Wireframing, Prototyping
<b>Programming:</b>	Python, Java OOP, TypeScript, HTML5, CSS, JavaScript, React, Prompt Engineering
<b>Tools:</b>	Figma, Blender, Miro, Google Colab, Canva, Git
<b>Hardware &amp; Prototyping:</b>	Arduino, Digital Fabrication, Laser Cutting
<b>Languages:</b>	Turkish (native), English (fluent), German (beginner), Korean (beginner)