

Emre Coban

PhD Student, Lecturer, Developer
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 LinkedIn |  GitHub |  Scholar |  Portfolio |  Turkey & Spain

EDUCATION

Rey Juan Carlos University

Ph.D. in Information and Communication Technologies GPA: –

Supervised by: Associate Professor Raquel Belén Hijón Neira, PhD

Madrid, Spain

Oct 2024 – Sep 2028

Working-on: AI-Driven Feedback Methodologies to Enhance Programming Education

Amasya University

M.Sc. in Computer Education and Instructional Technologies GPA: 3.66/4.00

Supervised by: Professor Özgen Korkmaz, PhD

Amasya, Turkey

2018 – 2021

Master's Thesis: An Alternative Approach for Measuring Computational Thinking: A Performance-Based Platform

Ondokuz Mayıs University

B.Sc. in Computer Education and Instructional Technologies GPA: 3.43/4.00

Supervised by: Assistant Professor Polat Şendurür, PhD

Samsun, Turkey

2016 – 2018

Undergraduate Project: Developed an Android application designed to support accessibility and daily usage needs for individuals with disabilities

Ondokuz Mayıs University

A.Sc. in Computer Programming GPA: 3.46/4.00

Supervised by: Lecturer Kemal Özcan

Samsun, Turkey

2013 – 2015

Associate Degree Project: Developed a Content Management System (CMS) to support instructional content delivery and management for values education

EXPERIENCE

Ardahan University

Lecturer in Computer Technologies, Vocational School of Technical Sciences

Ardahan, Turkey

Mar 2024 – Present, Full-time

- Delivered associate degree-level instruction across multiple computing disciplines, including Mobile Programming, Server Operating Systems, Fundamentals of Programming, Object-Oriented Programming, and Open-Source Operating Systems, emphasizing applied software development, system-level competencies, and hands-on laboratory practice.

Gendarmerie and Coast Guard Academy

Reserve Officer in Directorate of Security Research Center

Ankara, Turkey

Dec 2021 – Oct 2022, Full-time

- Completed mandatory military service (national conscription requirement in Türkiye).
- Conducted research on Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR) technologies to enhance training and simulation programs.
- Reviewed and edited academic manuscripts to ensure clarity, coherence, and adherence to scholarly writing standards.
- Provided technical ideation and advisory support to development teams on emerging technology projects.

Samsun Vocational and Technical Anatolian High School

IT Teacher

Samsun, Turkey

Sep 2017 – May 2018, Internship

- Delivered hands-on Arduino instruction to high school students, covering fundamental electronics, microcontroller programming, and sensor integration.
- Evaluated student projects and provided constructive technical feedback to support iterative design and problem-solving skills.

Side Internet and IT Samsun, Turkey
Web Developer Jun 2014 – Aug 2014

- Translated PSD and PNG design assets into responsive HTML/CSS interfaces and implemented backend functionality using Classic ASP, ensuring cross-browser compatibility and layout fidelity.

Kayrasoft Software and IT Samsun, Turkey
Web Developer Jul 2013 – Apr 2014

- Converted PSD and PNG design assets into responsive, standards-compliant HTML/CSS web interfaces.
- Developed corporate websites using Classic ASP, integrating dynamic functionality with JavaScript and jQuery.
- Performed database design and operations using MySQL and Microsoft Access, including data modeling and query optimization.
- Built user-friendly web platforms featuring intuitive interfaces and CRUD-based content management structures to effectively represent corporate brand identity.

KA Information Technologies Samsun, Turkey
Web Developer Jun 2012 – Nov 2012

- Developed responsive web interfaces using HTML/CSS by translating PSD and PNG design assets into production-ready front-end implementations.
- Implemented CRUD-based data management functionalities to enhance website interactivity and streamline content update workflows.
- Contributed to government-funded software projects focused on building tracking systems and women's health information management in Türkiye.

PUBLICATIONS

- [Conference Paper] Çoban, E., & Hijón-Neira, R. "AI-Code Feedback, an AI-Based Companion for Enhancing Introductory Programming Education." *2026 IEEE Global Engineering Education Conference (EDUCON)*, Unpublished.
- [Journal Article] Çoban, E., Çakır, R., & Korkmaz, Ö. "AI Feedback's Impact on Programming Achievement, Motivation, and Attitude." Unpublished.
- [Journal Article] Çoban, E., Korkmaz, Ö., & Çakır, R. "Attitudes towards IT Ethics, Personalized Learning, and AI Literacy among University Students." Unpublished.
- [Book] Korkmaz, Ö., & Çoban, E. "Integration of artificial intelligence into education and life on the axis of sustainability." In *Optimum Science Conference* (1st ed.). Hason Publishing, 2024.
- [Journal Article] Hijón-Neira, R., Pizarro, C., French, J., Palacios-Alonso, D., & Çoban, E. "Computational Thinking Measurement of CS University Students." *Applied Sciences*, 2024.
- [Book] Sevinç, S., & Çoban, E. "Gendarmerie and Disaster Management in 30 Questions." *Jandarma ve Sahil Güvenlik Akademisi Yayınları*, 2023.
- [Book Chapter] Erdal, H., Arslan, S., & Çoban, E. "Extended Reality Technologies: Conceptual Framework and Use in Security." In *Extended Reality Technologies and Security Applications*. Kriter Yayınevi, 2022.
- [Conference Paper] Çoban, E., & Korkmaz, Ö. "An Alternative Approach for Measuring Computational Thinking Skills: Performance-Based Assessment." *ERPA International Congresses on Education*, 2021.
- [Journal Article] Çoban, E., & Korkmaz, Ö. "An Alternative Approach for Measuring Computational Thinking: Performance-Based Platform." *Thinking Skills and Creativity*, 2021.
- [Journal Article] Erdoğmuş, C., Çoban, E., Korkmaz, Ö., & Özden, M. Y. "Technological Formation Scale for Teachers (TFS): Development and Validation." *Participatory Educational Research*, 2020.
- [Journal Article] Çoban, E., Korkmaz, Ö., Çakır, R., et al. "Attitudes of IT Teacher Candidates Towards Computer Programming, Self-Efficacy, and Opinions on Block-Based Programming." *Education and Information Technologies*, 2020.
- [Conference Paper] Erdoğmuş, C., Çoban, E., & Korkmaz, Ö. "Technological Formation Levels of Teachers and Teacher Candidates." *Ondokuz Mayıs University International 100th Year Education Symposium*, 2019.

SKILLS

Soft Skills: Analytical problem-solving, collaborative teamwork, teaching & mentoring

Natural Languages: Turkish (Native), English (B1)

Languages: Python, PHP, C/C++, JavaScript

Technologies: MySQL, Node.js, Next.js, React, Supabase, Firebase

Methodologies: OOP, CI/CD

TEACHING

Object-oriented Programming (C++)	<i>Associate Degree, 4 hours</i>
The Fundamentals of Programming (Python, Pseudocode, Flowchart)	<i>Associate Degree, 4 hours</i>
Mobile Programming (Flutter, React Native)	<i>Associate Degree, 3 hours</i>
Server Operating Systems	<i>Associate Degree, 2 hours</i>
Open-source Operating Systems (Ubuntu, Linux Basic Commands)	<i>Associate Degree, 2 hours</i>
Web Project Management	<i>Associate Degree, 2 hours</i>
Information and Communication Technology	<i>Associate Degree, 2 hours</i>
System Analysis and Design	<i>Associate Degree, 2 hours</i>
Software Installing and Management	<i>Associate Degree, 2 hours</i>

SELECTED PROJECTS

Randevum (Appointment System, Web App) | [Live](#) | [GitHub](#)

- An appointment scheduling platform that helps users book meetings quickly, optimize availability, and communicate with attendees clearly and securely (Next.js, Supabase).

Computational Thinking Score (Web App) | [Live](#) | [GitHub](#)

- A web application for assessing computational thinking skills (a key 21st-century competency), developed as part of an academic research study and aligned with my M.Sc. thesis on performance-based measurement under the supervision of Prof. Özgen Korkmaz, PhD. (PHP, MySQL).

My Voice (Android App) | [GitHub](#)

- An Android app designed to support communication for people with hearing impairments by playing pre-written sentences for listeners who do not know sign language; developed under the supervision of Asst. Prof. Polat Şendurür, PhD. (Java).

Values Education (CMS) | [GitHub](#)

- A content management system for primary-school values education where teachers assign books and games, and students earn points by reading to unlock activities; developed under the supervision of Lecturer Kemal Özcan (Classic ASP, MS Access).

e-Government Favorites (Chrome Extension) | [Chrome Web Store](#) | [GitHub](#)

- A Chrome extension for Türkiye's e-Government portal ([turkiye.gov.tr](#)) that lets users pin frequently used services and access them directly from a favorites list, reducing search time and speeding up common workflows (JavaScript).

Turkish Dictionary (Web App) | [Live](#) | [GitHub](#)

- A digital dictionary platform that presents word meanings, linguistic properties, and usage examples, using publicly available data from [sozluk.gov.tr](#) (Next.js).

Vertical Transfer Assistant (Android App) | [GitHub](#)

- A native Android app for students preparing for Türkiye's Vertical Transfer Exam (DGS), designed as a lightweight study companion and test-prep assistant (Java).

AWARDS & ACHIEVEMENTS

High Honors Degree: Awarded to Master alumni who have graduated with a GPA greater than or equal to 3.50 by Amasya University. (2021)

Honors Degree: Awarded to Associate alumni who have graduated with a GPA greater than or equal to 3.00 by Ondokuz Mayıs University. (2015)

PROFESSIONAL MEMBERSHIPS

ACM — Student Member (#1501909)	<i>2025 – Present</i>
IEEE (Spain Section) — Graduate Student Member (#95257895)	<i>2025 – Present</i>
IEEE Education Society — Graduate Student Member	<i>2025 – Present</i>
IEEE Young Professionals — Graduate Student Member	<i>2025 – Present</i>