



Atakan ONAY

Computer Engineer Student

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PROFESSIONAL SUMMARY

Final-year Computer Engineering student specialising in full-stack development and prompt engineering. Co-author of an IEEE-accepted research paper; built and deployed 3 production web applications. AI-literate practitioner who applies prompt engineering and Generative AI tools to accelerate development and automate repetitive workflows. Currently seeking an internship to bring software, data, and AI skills into a global professional environment.

TECHNICAL SKILLS

Languages: Python, SQL

Frameworks & Libraries: React, Django, Pandas, Node.js

Tools & Platforms: Git, GitHub, VS Code, Vercel, Porkbun

Databases: SQL (relational schema design, query optimisation)

Creative & Productivity: CapCut, Canva, Microsoft Office Suite

Generative AI & Automation: Prompt Engineering, Claude (Anthropic), Gemini, AI-assisted Development, Workflow Automation

Concepts: Constraint Satisfaction, Algorithm Design, Data Cleaning & Pre-processing, REST API, Backend Development, SEO Optimisation

WORK EXPERIENCE

Intern Software Engineer — Gen Yazılım (Feta) July – August 2025

[All Materials In Github](#)

- Completed a 2-month internship including an intensive 3-week Python and algorithms training programme, advancing from foundational to intermediate level.
- Built a Django-based backend application with SQL database integration; performed schema design and wrote queries across multiple tables to support data persistence and retrieval.
- Collaborated within a team of peers using Git and GitHub for version control, maintaining clean commit histories and branching workflows.
- Technologies: Python, Django, SQL, Git, GitHub, VS Code

Content Editor (Volunteer) — O'Podcast & HSD Okan 2023 – Present

- Produced and post-produced 13 podcast episodes end-to-end for [O'Podcast \(Okan University Podcast Community\)](#)
- Created 30+ social media assets — reels and static posts — for [HSD Okan \(Huawei Student Developers Club\)](#)
- Tools: CapCut (video editing), Canva (visual design), Microsoft Office Suite (project coordination)
- Developed teamwork, communication, and cross-functional collaboration skills through consistent delivery of content across multiple channels.

RESEARCH & PUBLICATIONS

Co-Author | IEEE ICHORA 2026 (IEEE Turkey Section) | Accepted [\[Acceptance Letter\]](#)

[A Fairness-Aware Constraint Satisfaction Framework for University Exam Timetabling with Dual-Role Instructor Conflict Modeling](#)

- 1 of 7 co-authors. Designed and built the full-stack web application (React + FastAPI) used to generate and validate research test data.
- Built data cleaning and pre-processing pipelines in Python to prepare datasets for algorithmic evaluation.
- Proposed and implemented a novel capacity-handling algorithm enabling dynamic multi-room assignment for a single exam across up to 12 rooms when student enrolment exceeds individual room capacity — an approach not previously documented in the literature.

PROJECTS

Personal Portfolio Website | atakanonay.com

- Minimal, responsive Computer Engineering portfolio.
- Showcases a curated collection of web, game, and software projects developed throughout academic studies and self-directed learning.

CSP Exam Timetabling Web Application | csp-exam-timetabling.vercel.app

- Full-stack application (React / FastAPI) implementing the constraint satisfaction framework from the IEEE research paper, deployed on Vercel.
- Integrated OR-Tools for combinatorial optimisation, NetworkX for conflict graph modelling, and Pandas / NumPy for data manipulation and analysis.
- Features an interactive UI allowing users to adjust soft-constraint weights (0–10 scale) — e.g. preventing students from three consecutive exam days — for hypothesis testing and custom scheduling scenarios.
- Supports both anonymous datasets and user-uploaded custom data, enabling real-world usability beyond the research context.

Milos Cunda Hotel Platform | milos-cunda-web.vercel.app

- High-performance hotel website supporting 3 languages (Turkish, English, Greek), built with a focus on technical SEO and Generative AI Optimisation.
- Implemented Hreflang tags for multilingual indexing, 3 Schema.org JSON-LD entity types (Hotel, Restaurant, Landmark) for Rich Results, and Local SEO entity data for the Cunda / Ayvalık region.
- Built with Static Site Generation (SSG) ensuring millisecond response times and optimal Core Web Vitals scores.

EDUCATION

B.Sc. Computer Engineering — Okan University, Istanbul 2021 – 2026 (*Expected*)

- One-year English preparatory programme completed prior to degree commencement.
- Relevant Coursework: Artificial Intelligence (graduate-level), Database Management, Data Mining, Fuzzy Logic.

CERTIFICATIONS

AI Ethics and AI Law

2025

BTK Academy | [AI Ethics Certificate](#) | [AI Law Certificate](#)

Claude 101 & Claude Code 101

2025

Anthropic | [Claude 101](#) | [Claude Code 101](#)

LANGUAGES

Turkish: Native | **English:** B2 Upper-Intermediate